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HORTICULTURE

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DEVOTED TO THE

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H. H. Battles.

FLOWERS IN HISTORY

In all ages and among all nations there has always been an especial reverence paid to flowers, and many legends and superstitions have attached themselves to different members of the floral kingdom. In tracing the pages of history, also, one frequently finds flowers associated with important events. It is scarcely necessary to begin this sketch as far back as the garden of Eden, yet some old commentators start their floral records even at that happy era. St. Ambrose and St. Basil, for example, both state that the roses in Eden grew without thorns, and Milton says there bloomed in Paradise,

"Flowers of all hue, and without thorn the Rose."

Sir John Mandeville derives earthly roses from a later epoch. He tells of a virgin martyr, burned at the stake in Bethlehem. From the unkindled brands there grew white roses, while from the extinguished fire-brands there sprung red ones. The Mussulman has quite another story for the beginning of roses. He says that when Mahomet made his journey to heaven, the drops of perspiration which fell to earth from his forehead became white roses, but the perspiration of the animal he rode gave rise to yellow roses. The Mandeville story is the prettier one. He gives it in some detail in his "Voiage and Travails." A Jewish maid of Bethlehem was falsely accused by a rejected suitor and condemned to be burned. When the flames were kindled they encircled the false accuser and burned him to a cinder, but the fagots around the virgin remained unlit. Suddenly the brands turned into white and red roses, — "And these were in the first roses that ever ony man saugh," says the earnest Sir John.

We come to much surer ground in ancient Egypt, where, 4,000 years ago, the florists must have driven a thriving trade. Many were the musical parties given by the old Egyptians, and at these the guests were generally supplied with lotus flowers. There is a painting on the walls of a Theban tomb of forty centuries ago, which pictures all the guests sitting with flowers in their hands, while music and dancing is taking place before them for their amusement.

In ancient Greece and Rome something very similar was done in the banquet room. The guests reclined upon couches (for they did not eat in a sitting posture) crowned with myrtle, while often showers of rare flowers were scattered upon them from above. The Romans were fond of flowers, and it is very pos-

sible that the first floriculture in England was introduced by these beneficent invaders. Ancient China, too, had a taste for floriculture, and one of the most popular and ancient songs of the entire empire celebrates the Mu-li, a fragrant blossom, with much ardor. Yet the name of "the flowery kingdom," constantly applied to China, is not entirely deserved. It comes from a mistranslation of "Hwa Kwoh," which properly means "the flower of kingdoms."

The ancients associated flowers and trees with their deities. The worship of trees was especially ancient in the north of Europe. The Vikings worshipped the ash tree and built their dwellings around it. They believed that the whole earth was sustained by the sacred ash tree — Ygdrassil! The old Druids held the oak and mistletoe in reverence. It may not be generally known that the bringing home of the Yule log at Christmas, and the Christmas-tree itself, are merely survivals of old pagan tree-worship.

The pagans of southern Europe had the following connection of trees and flowers with their divinities: — the laurel was dedicated to Apollo, the cypress to Pluto, the lily to Juno, the myrtle to Venus, the narcissus to Ceres, the oak to Jupiter, the olive to Minerva, and the vine to Bacchus. The Christians following this example, dedicated the lady's-smock to the Virgin, the rose to Mary Magdalene, the daisy to St. Margaret, etc.

Certain flowers have become national emblems and represent some countries almost as clearly as the flag itself. Thus the fleur-de-lis was adopted for France by Louis VII in the 12th century, and has remained the emblem of the Royalist party of that country ever since. The leek typifies Wales, the thistle Scotland, the shamrock Ireland, the pomegranate Spain, the corn-blume Germany, the linden Prussia, etc. America has not yet chosen a national flower; possibly it is impossible to choose one that would be representative of all of her widely separated states and different climates.

But England has been represented in history by the rose. Indeed, at one time the rose was the definite emblem of two opposing parties and armies. During the great Civil war which raged for thirty years in England, in the 15th century, the house of York had the white rose as its emblem (it had worn this in its coat of arms for centuries) and the red rose was chosen by the house of Lancaster. Shakespeare in his "Henry VI," mistakenly pictures the factions choosing their emblems just before the combat, —

"PLANT. Let him that is a true-born gentleman,
If he supposes I have pleaded truth,
From off this brier pluck a white rose with me."

"SOMERSET. Let him that is no coward nor no flatterer,
But dare maintain the party of the truth,
Pluck a red rose from off this thorn with me."

England has a fair right to be represented by the rose, but one would prefer to have Scotland typified by its beautiful and sturdy heather rather than by the thistle.

We have already stated that the Romans brought something of their love of gardens with them into old England. Once these were established in Britain, however, they became permanent. We have an eloquent picture of London more than seven hundred years ago, penned by Fitz Stephen, who died in 1191. He gives a long Latin eulogy of the city, in the course of which he says, —

"Adjoining to the houses on all sides lie the gardens of those citizens that dwell in the suburbs, which are well furnished with trees, spacious and beautiful. On the north side too, are fields for pasture, and a delightful plain of meadow land, interspersed with flowing streams on which stand mills whose clack is very pleasing to the ear. Close by lies an immense forest, in which are densely wooded thickets, the coverts of game, stags, boars and wild bulls. The tillage lands of the city are not barren, gravelly soils, but like the fertile plains of Asia. . . . There are also round London, on the northern side, in the suburbs, excellent springs; the water of which is sweet, clear and salubrious, . . .

"Mid glistening pebbles gliding playfully'

amongst which Holywell, Clerkenwell, and St. Clement's well, are of most note, and most frequently visited, as well by the scholars from the schools, as by the youth of the city, when they go out to take the air in the summer evenings. The city is delightful indeed, when it has a good governor."

Once more, in England and in Scotland too, long after the "Wars of the Roses" the rose became the emblem of a monarch and a war. It became the representative of the Pretender, James, since his adherents were obliged to meet "under the rose" ("sub rosa") in the greatest secrecy, in the days just after the first uprising, in 1715.

The very phrase of "under the rose" leads us into further history and legend. The old pagan myth tells of Cupid giving Harpocrates (the god of silence) a rose as a bribe not to reveal the amours of Venus. Because of this legend, the rose became the emblem of silence among the ancients. The significance of the rose passed on into modern times, and it was painted or carved on the ceiling of many an old banqueting-room as a suggestion that secrets divulged under the influence of the feast must not be revealed any further. Soon after the year 1500 it was carved over religious confessionals.

It would be interesing to study the plant language of the various nations, but it would require far more space than is at disposal in this initial number of HORTICULTURE; suffice it to say that all nations have indulged in a symbolism of this sort. In England it was very ancient. Long before the time of Shakespeare there were ballads with the refrain — "Oh the broom that makes full sore," — alluding to the broom-plant as an emblem of tragedy; and Desdemona's "Oh willow, willow," is but an indication of the willow being an emblem of blighted affection. We have, however, sufficiently indicated the power of flowers as emblems, metaphors and signals, and believe that we have shown that mankind in general agrees with Wordsworth's view that

"One impulse from a vernal wood
May teach you more of man,
Of moral evil and of good,
Than all the sages can."

Louis C Elson



M. H. WALSH, *Rose Specialist,* Woods Hole, Mass.

HARDY ROSES, the best new and old varieties; STRONG FLOWERING PLANTS; HYBRID TEA ROSES, the best and hardiest varieties; NEW RAMBLER ROSES, LADY GAY, DEBUTANTE, WEDDING BELLS, SWEETHEART, LA FIAMMA and MINNEHAHA. Strong field grown plants to flower next summer. Best varieties PAEONIES, PHLOX and HOLLYHOCKS.

Catalogue describes all the above.

WINTER VEGETABLES

There is always a difficulty in supplying the home demand for fresh vegetables during the winter months, and the gardener is often puzzled to supply enough in quantity, where the conveniences are limited.

It is a good time now to lift roots of asparagus for forcing purposes. This vegetable is highly appreciated always, is easily forced, preferably in a light place, for darkness spoils the color which should be a lively green to be appetizing when served. There are plenty of vacant spaces under greenhouse benches that may be utilized for this purpose providing there is room for soil to be placed over the roots. We utilize grapery borders inside also for this purpose, placing the roots on the surface of the borders and placing loose soil over them.

The principal thing is to have home grown roots with strong crowns at disposal. These should be lifted carefully that mutilation does not impair the value of the same, for it is not fair to expect good results from the best of crowns if these have been denuded of their roots in part when lifting.

Asparagus plantations may be made to last many years by liberal manuring, but for the best results, young vigorous plantings of five to six years' growth make the finest and most succulent shoots, hence we plan to plant a new bed each year to take the place of the lot taken up for forcing purposes, keeping the whole in fine vigorous bearing condition.

It has been demonstrated to our entire satisfaction that asparagus roots should be planted at least a yard apart in the rows, making the latter four feet apart if it is intended to use a horse cultivator through them after weeds begin to grow.

When the roots for forcing are lifted, it is very important that they be well frozen before taken into heat, for, after being thus put to sleep it is much easier to waken them. The same applies also to rhubarb, which may be put in tubs well frozen and brought in in succession as needed. Rhubard is best forced in darkness, the boiler cellars being a good place to put the earlier roots to ensure early results.

After forcing, asparagus roots are valueless, but rhubarb may be stored away from cold and later planted out in spring to grow for two years, when the same roots may be forced again.

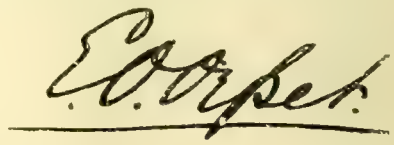
Miltonia Vexillaria

There are few orchids that lend themselves more readily to graceful decorative combinations than this Miltonia, and the plants bloom at a season when the display of Cattleyas are on the wane. For June weddings these flowers are invaluable, as they blend so readily with pæonies, roses, or whatever other flowers may be the predominant feature.

A note at this time, reminding cultivators that this is the best time to repot the plants, is seasonable — it is preferable to use shallow pans rather than deep receptacles, as this Miltonia is a surface rooting species. We have tried all materials for growing them in and prefer sound fern fiber with a surfacing of living sphagnum moss, this last to ensure a constant supply of moisture at the roots, this plant being very impatient of anything approaching dryness either in the atmosphere or at the roots, owing to its being found wild, where there is fog and rain every day in the year — indeed, the late Consul Lehmann, in describing the habitat of this Miltonia, stated that the conditions under which the plant grew were as nearly uniform during the whole year as it is possible to find; hence we have to place the plants in the coolest possible place in summer with shade, while in winter, when most growth is made, a genial temperature of 55 to 60 is essential. A very successful cultivator in Massachusetts carries the plants through the hot months in a cold frame.

It is found that these plants, like all other orchids, will take stimulants when in active growth, and will be benefited thereby if applied in homeopathic doses. This is the great secret in keeping the plants in vigor.

How often has it been remarked that many of the difficult genera of the orchid family are very successfully grown near the smoky centers of industry where rain water is carefully conserved for use on the plants. Doubtless the deposit of soot on the glass roofs is largely the factor that makes for success.



We hope you will like HORTICULTURE and recommend it to your friends in the trade. Send in their subscription now to insure complete file from first number. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

HORTICULTURE PUBLISHING CO.,
11 HAMILTON PLACE,
BOSTON, MASS.

TELEPHONE, OXFORD 292.

THE RIVERWAY

[*See Frontispiece*]

The creation of the Riverway in Boston's park system may be considered as one of the late Frederick Law Olmsted's greatest conceptions. Previous to its improvement, the site was a stretch of swampy bottom, through which ran a drainage course, — appropriately named (except for its narrow banks) Muddy River, — which marked the dividing line between the City of Boston and the Town of Brookline. Land values contiguous to its most objectionable sections were much depressed. For a part of the distance, on the Brookline side, a passenger branch of the Boston and Albany railroad ran parallel to the stream; and, although possessing good topographical advantages, taken altogether, the tract now known as the Riverway was one of very uninviting aspect, and in marked contrast to the present connecting link in the parkway system between the Fens and Jamaica Pond, about 1.9 miles in length. The driveway on the Boston side is carried generally along the bank at an elevation sufficiently high to afford fine views, while on the Brookline side it runs lower down and nearer the water.

The muddy swamp is now a meandering stream, near the head of which is a beautiful sheet of water of eleven acres, called Leverett Pond. Further southward the ground rises abruptly to an oak and chestnut-covered hill, beyond which is Ward's Pond; one of the steep slopes of which is planted with rhododendrons and kalmias, while the pond itself is the home of aquatic and semi-aquatic plants.

The bridle-path is carried between the driveway and the stream on the Boston side, and walks are provided on both sides of the stream near the water's edge, the drives, bridle-path and walks winding, at some little distance apart, in sympathy with the topographical features, thus affording ample space for the planting of shrubbery, and at the same time leaving room for desirable views, of which advantage has been taken.

The Riverway has a fine growth of young trees, and has also many fine old ones, yet its most conspicuous and chiefly adorning feature is its wealth of shrubbery. Few shrubs of exotic origin are used, the native varieties predominating and comprising, in many species, cornus, viburnum, azalea, rhus, berberis, rosa (Rosa lucida, rosa nitida, and rosa setigera, which are planted in thousands on the borders of paths and drives), pyrus, crataegus, ilex, ligustrum, andromeda, vaccinium, and many others.

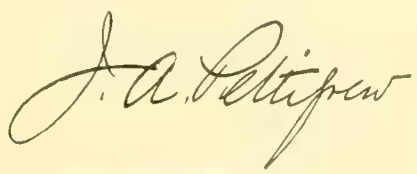
Several handsome stone bridges span the stream. Longwood bridge, shown in the frontispiece illustration, is a beautiful stone arch of one hundred feet clear span. The stone church appearing in the same view is said to be a copy of a church in Colchester, England. The second illustration is of a bridge which carries the bridle-path over a footpath. The bridge architecture and landscapic art



in the Riverway are in perfect sympathy, and support each other with rare fidelity.

An example of how such an objectionable feature as a railroad may be screened from view, is shown on the Brookline side, where a mound has been raised and planted with trees and shrubbery.

Taking everything into consideration, the Riverway, with its varied effects in its masses of flowering shrubs in spring, its gorgeous autumn colors in berries and foliage, its bridge architecture, its pleasing topographical features, is a practical illustration of how an almost waste and useless tract of land may be converted into a thing of utility and harmony, and is one of the most beautiful, interesting, and instructive portions of Boston's system of parks.



Widespread publicity, incessantly followed up, is to-day essential to business prosperity. We invite the patronage of all having goods or business to advertise, whether large or small, in all horticultural lines. We will see to it that HORTICULTURE reaches the buyers.

Lots of good printers' ink is wasted in profitless advertising. We don't want that kind. When your advertisement has done its work, take it out. We don't tie you down with any contract.

Lynch and the Baby Rambler

It is currently reported that a Rochester firm paid ten thousand dollars to the originators in France for the American rights in the "Baby Rambler."

I cannot vouch for the truth of this, but if they did it is significant of their faith in the merits of this plant. I hope they will reap a handsome reward for their enterprise, and I hope also, that the other firms in this country who got stock indirectly from Europe as soon if not sooner than the right holders will come in on the crest of the wave at the same time. A little bird whispered to me that there was a stock of some two hundred and fifty thousand of it in the vicinity of West Grove, Pa., so when I ran up



against P. J. Lynch of that burgh the other day I tackled him on the point. But he is a wary bird and I had to use diplomacy to get what I wanted. I think you can put it down as a sure thing that there's a big stock of the Baby in West Grove, although P. J. didn't tell me that in so many words. But in regard to the merit of the Baby he was quite outspoken.

"George, mark my words; inside of three years the Baby Rambler will be the sensation of the horticultural world. Just think of it; an exact replica of the Crimson Rambler, only a bit larger and brighter flowers and only a foot high. What a gem for edgings, what a subject for the window garden and conservatory, what a beauty for the summer rose bed, what a magnificent thing for a dozen purposes! Why, they talk about Crimson Rambler and the millions that have been sold of it — this is destined to be entirely cast in the shade when the people get acquainted with the Baby."

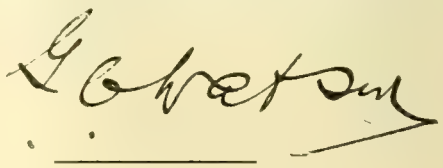
At this point I ventured to hint that perhaps this rosy view was caused by the fact that P. J.'s firm had a big stock of Babies.

"No you don't, my boy, none of your underhand questions. But even admitting for the sake of argument that we had, what then? doesn't it prove our faith? Do you suppose we would propagate this plant with every wile and at the highest pressure regardless of expense if we didn't believe in it? Not much!"

I had still another shot in the locker of the devil's advocate, however, and I fired it. A visitor to the Madison show had seen some specimens on exhibition and reported to me that the thing was "absolutely no good."

"Don't you believe it! Wait until next year when some one who can grow stuff puts it up as it should be. Why, man, you can have plants covered with flowers all the year round, every day in the year, as thick on the plants as the blooms of a Lorraine Begonia. What do you think of that?"

I thought that was great and realizing that the man who runs the biggest rose growing establishment in America ought to know what he was talking about, I made a graceful advance northward toward the north pole as Kuropatkin would put it. The picture herewith gives a good idea of the "Baby." Who knows what wonderful potentialities may be hidden away in the little morsel? keep an eye on it!



Allamanda Williamsii Grown in Bush Form.

These beautiful free-flowering stove plants, mostly natives of South America, are generally found in most places trained as roof climbers. But they also make elegant bush specimens if treated in a different way. The accompanying picture shows three of six plants exhibited at the Newport summer show two years ago. These specimens were nearly five feet in diameter and covered with an abundance of expanded blossoms.

Allamandas are of easy culture, but a few remarks here may be interesting to some of the younger element. Plants this size can be obtained in two years from rooted cuttings if they are struck the latter part of February or early in March (which they can easily be, by pruning back any old plants to four or five eyes) and started in a stove temperature, keeping the plants well up to the light and syringing them several times daily to soften the wood and make them break. When the young growths have obtained the length of four or five inches, take them



Allamanda Williamsii

off close to the old wood and insert them in a propagating case with bottom heat, and in about two weeks they will be ready for potting into small pots. From this time throughout the entire summer they should be encouraged to grow as much as possible, potting them on as they require it, and stopping them occasionally when they have made five or six inches of growth. They require no shade even in the hottest part of the summer. See that they are syringed at least twice a day and do not suffer for want of water at any time during the growing season.

Toward the end of September gradually withhold water, letting them sometimes flag for the want of it, which will check further growth, and treat in this way till about the end of October, allowing the soil to become a little drier each time before water is given, so as to ripen the leaves which will soon turn yellow and fall off. The plants can now be placed in a cooler temperature of about 60°. Lay the pots on their sides and away from the hot pipes, giving them a little water once in two or three weeks to prevent the wood from shrivelling. About the middle of February prune them back hard to four or five eyes, turn them out of their pots, and reduce the ball, leaving a reasonable quantity of soil attached to the roots, which if very dry should be soaked in tepid water ten or fifteen minutes, seeing that the ball is well saturated, draining the same when taken from the water for an hour or so. They can then be potted into the same size pots they were taken from, or smaller if necessary, using good fibrous loam with a small quantity of sand and about one-sixth part of well-rotted manure, potting them good and firm. Return them to the stove, keeping them well up to the light and syringing them three or four times a day to soften the old wood and make them break.

When they have nicely filled these pots with roots, they can be shifted into their flowering pots the size of which can be determined according to the size specimens required, which may be from ten to eighteen inches in diameter. Take care to see the pots are well crocked, as they will require an abundance of water and liquid manure twice weekly throughout the growing season, using the soil more lumpy at this potting. When the new growths are about four inches long, take out the points which will induce them to break from the lower eyes; when they have obtained a similar length again take out the points of each of them, and continue this at least till the middle of the summer if large specimens are wanted, or the pinching can be withheld at any time according to size plants required, and the time they are wanted in bloom, which will be in about three or four weeks from the last pinching. When they have done flowering they should be ripened up gradually and wintered as before advised.

Arthur Griffin

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

Next Comes Ye Editor

GREETING.

"Together let us beat this ample field,
Try what the open, what the covert yield."

HORTICULTURE here makes its bow. Its sponsors bespeak for it a kindly welcome and express the earnest wish that, favored with the encouragement and forbearance of a host of good friends, it may grow better and better with each issue, take deeper root in the affections of all those who find their life work among flowers and plants, fruits and trees and gardens, and, that it may, in due time, reach the eminence to which it aspires, as the foremost American exponent of horticultural aspiration and achievement.

To our contemporaries in the field we express our hope for a cordial reception into the growing family of horticultural journals, recognizing how largely the craft are indebted to them for present enlightenment and looking forward eagerly to a joint participation in whatever work or honor the future may have in store.

AFORETHOUGHT.

The charge intrusted to HORTICULTURE is —

To advance the interests and elevate the standard of American horticulture

By presenting to the readers in the profession our craft and our goods in the most attractive and most instructive light.

By keeping them informed of what is being done and what is sought by enterprising horticulturists throughout the world.

By introducing to them in an unprejudiced and trustworthy manner new and meritorious plants, devices and discoveries of interest and practical value to the craft.

We hope to give individuality to HORTICULTURE and make it distinct from all other publications in its class and, discarding overworked features and substituting new ones, to provide the American florist and gardener with the best journal ever published in their interests.

If our purpose carries, readers will find our advertising columns among the most useful and entertaining contents of this paper. We propose that in them shall be found offers of everything in the market which can be desired by the progressive florist, gardener, nurseryman and seedsman, or that can be found advertised elsewhere. The most reliable houses are especially sought as regular users of our advertising columns, and we shall endeavor to present their offers in a conveniently classified form, which affords all the advantages of ready information, while at the same time directing the attention of the buyer to the larger advertisements on other pages. Readers and advertisers are invited to note the special features we have adopted and to make suggestions as to how, in their opinion, these can be improved.

Although early in the field with horticultural periodicals that commanded attention at home and abroad, Boston, the recognized horticultural center of this continent, has now been for many years unrepresented by any local publication devoted to the "art that doth mend nature." Yet in the country adjacent to the New England metropolis are found the best cultivators; better products are shown on the exhibition tables and in the markets than can be seen elsewhere and consequently the highest class of cultural information is here conspicuously available.

It is reasonable to assume that a weekly paper published among the people who support the most prosperous horticultural society in the world, devoted to the interests of all branches of the profession, should live and prosper. Local pride should insure for it loyal support from the territory which it directly represents, and the store of expert knowledge from which it is privileged to draw, should secure for it a solid footing in every community where an aspiring gardener or florist is to be found.

The craft everywhere are invited to make HORTICULTURE their medium for interchange of thought and experience. Its columns will be always open to their use in any way that will contribute to their intellectual or material advancement or dignify their calling.

A plant grower of high repute on being asked one day recently, to tell the secret of a lot of remarkably fine cyclamens which he, with due pride, was showing to some visitors, replied, "Eternal vigilance is the price of anything worth having." He then went on to tell how, for a number of years he had watched and studied his cyclamens, noting carefully the slightest mark of individual superiority or advancement on any line and by diligently following up a systematic plan of selection and seed-saving from his own and other high-grade stocks had brought his strain up and up, gaining a little every season until now its supremacy was unmistakable.

The burden of our friends' little talk was that, while it is true that some of our finest floral treasures have come to us without any specially directed effort,

yet the greater part of what we now prize as garden flowers attest, in their perfection of to-day, many years of assiduous devotion and toil on the part of some one or several enthusiasts.

Many of our popular flowers and, undoubtedly, many that have thus far no marked prominence, await only the attention of some zealous worker who, with clear insight and well-directed effort on specific lines, will yet evolve from them a progeny having a value hitherto unknown. The grower quoted from had been aiming especially for early flowering qualities and a habit of holding the blooms well toward the center of the plant rather than for eccentric attributes of form or color, and it was on these valuable qualities that he had made his best advancement. Whether it be in one or the other of the many species raised annually from seed by the plant growers, full recognition awaits anything that is a practical improvement over what we have previously known.

Thus far most of the successful work in this direction has been done abroad, but there are gratifying indications that American specialists are now coming to the front, to whom we may reasonably look for distinguished services in the near future.

The paper by H. H. Groff of Simcoe, Ont., on "Breeding from 'Tame' *versus* 'Wild' species," which was presented at the Plant and Animal Breeders' Convention in St. Louis, December, 1903, has had such a wide circulation and attracted so much attention in England and the United States that a second edition of the printed copy has been issued. Since the circulation of the first edition, Mr. Groff's claims for the great advantages to be gained by breeding from domestic specific types has been supported by Prof. Hugo de Vries in his lecture at St. Louis in September of 1904. Prof. de Vries' conclusions were reached after an exhaustive series of experiments conducted for the purpose of proving that domestic species could be produced within a comparatively limited period of operation. Breeding from select mothers, with domestic specific types as sires is the line on which Mr. Groff claims to have made his greatest advancement, and his is the honor of having been the first to call attention publicly to the theories of which the correctness has now again been verified.

OUR ADVERTISERS

The advertising columns of this, the first issue of Horticulture, present an impressive example of confidence and enterprise. The confidence in the management of the new paper thus practically expressed, before a type had been set or the contents and makeup of its pages known, is deeply appreciated. The enterprise shown adds luster to the commercial aspect of our profession and is a convincing proof of the lusty vitality which permeats every department of horticultural industry to-day. Every line of advertising in this paper has been legitimately contracted for; there is no "padding." We ask our readers to recognize these firms that have displayed so much brains, courage and progressiveness, by reading their announcements and giving them all possible business patronage. This will be a most practical compliment, and the more of it you bestow on them the better it will be for Horticulture.

Jerome Jones

Chrysanthemum lovers will be glad to look upon the likeness of this staunch friend of floriculture, the husband of the lady whose name is a household word wherever a florist exists, through the peerless flower that bears her name.

Mr. Jones is one of the solid merchants of Boston. For over half a century he has been associated with the importing firm of Jones, McDuffee & Stratton. He is an ex-president of the Boston Commercial Club and Boston Board of Trade, ex-trustee of Mt. Auburn Cemetery, and is a director in the Boston Transcript.



Mr. Jones' friendliness to horticulture was well shown when, a few years ago, he established an ample fund under the direction of the Massachusetts Horticultural Society, the income of which is to be devoted annually to premiums for the exhibition of the varieties of chrysanthemums originated by the late Henry A. Gane.

He was a guest at the recent banquet to the Chrysanthemum Society of America at Boston, where his genial company and entertaining address gave much pleasure to the participants.

THE BEST NOVELTIES FOR 1905

Let us book your order now. This will insure earliest delivery and best stock

Chrysanthemums our Specialty

Do not fail to procure OUR FIVE SUPERB

American Bred Novelties

FIDELITY—Pure white.
BRIGHTHURST—Soft rose.
PINK QUEEN—A future early pink.
OKOLONA—White, pink center.
KINKORA—Light mauve.

In addition to above we offer all the OTHER AMERICAN NOVELTIES and BEST IMPORTATIONS.

As to This Year's Introductions and Standard Varieties, we have all that are worth growing. TRY US.

Valuable Assistance to Successful Culture

SMITH'S CHRYSANTHEMUM MANUAL treats all phases in detail. Only 25 cents, postpaid.

Carnation Novelties

CARDINAL—Improved Estelle.
FIANCEE—The world's best pink.
FRED BURKI—White.
RICHMOND GEM—Scarlet.
PHYLLIS—Light pink.
CHICAGO WHITE.

All future money-making varieties. Can give earliest delivery on above at introducer's prices.

Also best of 1904, including FLAMINGO, LADY BOUNTIFUL, WHITE LAWSON, etc.

OUR TWO

Geranium Novelties

SNOW QUEEN—The best single white.

OROSA—The double Mrs. E. G. Hill. Both decided improvements.

Also large stock of standard varieties, outdoor propagation, ready for immediate delivery. WRITE US.

Our New Begonia Rex, the Seven Sisters

GENESEE, ARENAC, HURON, EMMET, DELTA, BARAGA and CLARE.

These will be in future collections. Illustrated and described in our catalogue for 1905.

Cannas

THE EXPRESS—
As a dwarf crimson bedder this has no equal. Awarded a Gold Medal at World's Fair, St. Louis.

OSCODA—
Same dwarf and free flowering habit as The Express; color of Queen Charlotte. Do not fail to add these to your stock.

Hardy Perennials

A complete list of the best, including HELIANTHUS SPARSIFOLIA and choice named Phlox in variety.

OUR ILLUSTRATED TRADE CATALOGUE WILL BE MAILED EARLY IN JANUARY

NATHAN SMITH & SON . . . ADRIAN, MICH.

What Ye Neighbors Say

"The love of praise, howe'er concealed by art,
Reigns more or less, and glows in every heart."

I think there is room for a good paper devoted to Horticulture and not to gossip. — J. M. K.

Your personality, together with your well-known ability, is bound to make your venture a successful one. — A. M.

I am very much interested in the publication, and wish you the greatest success and prosperity in your undertaking, as I feel that you, from your wide experience, will make this a paper to be sought and read by those interested in Horticulture. — M. H. W.

I am glad to see you at the head of this new venture, and feel sure that there is no one in the country better able to make such an enterprise a success from the start. You have my very best wishes for the success of the enterprise. — J. S. V.

While it may seem that the ground is already well covered with the three present trade papers, I still believe that there is ample room and good prospects for a well edited, practical paper.

That you may have the best of success in this new enterprise is the sincere wish of S. R.

Under your able management I am sure that success will crown your efforts and that the journal will become a potent factor in the trade. You may take my order for an ad. for one year from date of first issue, and when the year terminates, continue it for second, third and other years. — S.

The first number of *Suburban Country Life* comes to us full of the aroma of the woods, the thrill of country air and all the healthy inspiration that springs from the love of beautiful homes and rural surroundings. It is superbly illustrated and in all its features are found the fulfillment of the promise of its publishers to provide a high-grade magazine for the popular price of ten cents. *Suburban Country Life* is the outgrowth of *The Suburban*, and is published monthly by the Colonial Press, Boston

Advertisements for Number Two

Should reach us by Monday, December 5, if possible, or Tuesday, December 6, at latest. In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment. Just try it, and please remember that

ADVERTISEMENTS FOR
NUMBER TWO
Should reach us by Monday, December 5, if possible, or Tuesday, December 6, at latest

After Ye Adjournment

"De-lighted."

The launching seems to have been a success.

Don't forget Elliott's plant sale, New York, Tuesday, December 6.

Chrysanthemum shows all over: the holidays next claim our attention.

Results of the season's tests of Thorburn's sensational new potato, Noroton Beauty, indicate that this will prove to be just what its introducers claim for it, "the best all-round potato in existence." The highest authorities on potatoes agree in pronouncing it the earliest and most productive variety ever produced.

Our fastidious contemporary, Job — he of the variable identity — has discovered a remarkable propensity for "kicking" on the part of the Canadian brethren, and takes occasion in the latest issue of the *Florists' Exchange* to offer them some sound advice (applicable to some others besides Canadians) on the evil the "kickers" do and the dangers of the bickering habit.

Christian Moeckel, Fitchburg, Mass., who has brought suit against the C. A. Cross Company to recover for glass broken at the gasoline explosion at the company's tanks in March last, has had the case entered in the superior court now in session here. He claims $3000 damages.

Pompon Chrysanthemum "Baby"



Our illustration of this dainty little chrysanthemum will give some idea of how it appears grown in an eight-inch pan for commercial purposes. The color is a clear rich yellow, making an excellent contrast, and standing well above the dark green foliage. Each blossom is of the most refined and perfect form and the habit of the plant is excellent. Craigs of Philadelphia, had a 100-foot house of it for the Thanksgiving trade this season, and sold it all out in a week. In addition to its usefulness as a pot plant, it is also excellent for bunching as a cut flower.

Aphelandra aurantiaca

We have some self-sown seedlings of this bright flowering, hothouse or what European gardeners would call "stove plant," in bloom at the present time. These plants were found early last June near where the old plants bloomed a year or so ago. The second seed leaves are still intact, and there are twelve to fourteen leaves of all kinds on each plant, and the total height from the tip of the flower buds to the soil is less than six inches, making them dwarf and very attractive plants.

The flower buds on first showing color are lemon yellow, gradually becoming deeper, until when fully expanded they are brilliant scarlet, which is a color very highly appreciated at this season of the year when all nature outdoors is sombre and sere.

Another batch of seedlings were dibbled in pans in light rich soil a few days ago, that were found in the same way and are also the result of self-sown seeds. The plants from which these seeds fell were in bloom last May. Strange as it may seem, the seed fell upon 'stony ground' as it were — among pebbles with no soil only what perchance was washed from the pots when being watered, which goes to show that as a rule, an abundance of water must be given when starting seeds.

Of the dozen and a half plants we have here, all are showing flower buds in various stages. Some are only barely visible, while two plants are now in bloom. From present indications it looks as though some would be just right for the holidays, and what more brilliant and appropriate centrepiece for a Christmas dinner table could be imagined than half a dozen such plants in a ten-inch pan?

Edwin Lonsdale.

Plantsmen's Topics

Chrysanthemums are now nearly all relegated to the rubbish pile, except favored varieties selected for another season's trial. Some few varieties have had honors showered upon them, particularly the newer varieties, introductions of 1903, but many alas! have made their final appearance, for no other reason than failure to reach the required abnormal size on the exhibition table.

This should not be so, for many beautiful varieties look their best when grown ten or fifteen blooms to a plant, and why do not our schedules call for such plants, naturally grown, not covered with a net-work of tying material, but growing gracefully as nature would have them.

The flat-board system is a thing of the past and in the near future the educated public taste will demand plants grown naturally, without a suggestion of formality, but in their own artistic arrangement of bud and bloom. I recall a few such plants this season, which certainly were a pleasure to look upon, and gave more satisfaction than a house full of exhibition blooms, with all their attendant length of stem and wealth of foliage, a ladder being required whenever a visit to the blooms was contemplated, and wherever chrysanthemums are grown for pleasure it certainly seems to me the bush plants to which I have referred are by far the most desirable. Size of bloom should not be the only standard for judging the merits of a chrysanthemum for general purposes; form, color, and attractiveness are the qualities which appeal to the public, and more would be encouraged to make an attempt to grow a few plants if size alone were not the predominating requisite for exhibition purposes.

A. J. L.

Begonia Vesuvius

The proper name of the above plant is perhaps B. Vesuvé, but of this we are anxious to be certain. Perhaps some reader may be able to supply the desired information, for this plant has a future both for outdoor bedding in summer and pot culture in winter.

In our opinion it ranks next to the famous Lorraine Begonia of Lemoine in value, being a perpetual bloomer of the semperflorens type, very easily propagated from cuttings at any season.

The clusters of flowers are a bright coral red, the foliage taking on a bronze tint in summer by exposure to the sun.

For dinner-table decoration the flowers and buds, when used with asparagus Sprengerii, produce a charming color effect, very light, graceful and pleasing.

It is our impression that we have to thank M. Lemoine also, for this begonia.

E. O. ORPET.

All indications point to a continued and probably increasing popularity for jardinieres and baskets of mixed plants for the Christmas holidays. Bright foliaged dracæna terminalis, coral berried ardisias and Euphorbia Jacquinæflora with its racemes of orange-vermilion flowers, in fact, anything bright in flower, fruit, or foliage will find a ready market.

Notice to the Trade!

The HAERENS COMPANY of SOMERGEM (Belgium)

combining the Firms of the two modern and extensive Nurseries of **Messrs. John B. Haerens & Henri Wille**, besides the firm of **Mr. Henri Haerens**, both located at Somergem (near Ghent) Belgium, have disconnected their interests with the firm of Messrs. Haerens Bros. The latter name will be discontinued by mutual consent after January, 1905.

THE HAERENS COMPANY will henceforth supply their own Cultivations and Specialties direct to the Wholesale American Florist Trade and

MR. AUG. RHOTERT, 26 Barclay Street, New York

will act as their SOLE REPRESENTATIVE FOR THE UNITED STATES AND CANADA.

The requirements of the American Trade have been carefully studied by a Member of the Haerens Company during several extended visits to the United States and to the leading Florist Establishments.

Our Nurseries (being located on land especially adapted for the culture of *Azalea Indica*), are producing in large quantities an unsurpassed quality of all the approved best commercial varieties. A large range of modern Greenhouses enables us to supply Palms, Araucarias and other Hothouse Plants of selected quality in all commercial sizes and important quantities.

OUTDOOR ART AND CRAFT

Lilley & Chinberg have sold half interest in their nursery at Hankinson, N. D., and the name will be changed to Hankinson Nursery Company.

John P. Brown, the hustling secretary-treasurer of the International Society of Arboriculture, has just returned from Pensacola, Fla., Selma, Ala., and New Orleans, La., where he has been inspecting the great railway plantations of Catalpa which he found eminently satisfactory. Catalpa speciosa has made a wonderful growth throughout the South.

The town of Reading, Mass., has adopted a definite plan for fighting the brown tail moth. The town is to be divided into 44 districts, with a chief for each district. J. Woodward Manning is chairman of the general committee. Children will be employed in the work of gathering the nests at a price of five cents per hundred nests, the work to be confined to town limits and to be under the supervision of the district chiefs.

In removing a nest recently from one of the large elms in Cambridge, Mass., a large piece of the trunk was accidentally broken off, disclosing along every portion of the decayed inner surface specimens of the development of the gypsy moth from the egg state to the full-grown moth. There were millions of eggs, winged moth specimens, shells of moths, and moths in their winter state. It is the intention of the commissioners to preserve the specimens as an exhibit of the real need of an appropriation by the city to protect the city shade trees from this pest.

About Hedges

In seeking a good hedge plant to take the place of the handsome but uncertain California privet, many owners of gardens in the New England States have selected Berberis Thumbergii and already fine hedges of this beautiful subject are frequently seen. One of the earliest of the garden shrubs to put forth its buds and leaves in the spring, it is from first to last an object of great beauty and especially so in the fall after shedding its glowing orange and scarlet foliage and during the winter, when it becomes a veritable fountain of bright coral fruit.

Ligustrum Ibota is coming into favor also with those who are partial to privet hedges, its reliable hardiness being regarded as a partial compensation for its lack of the brilliancy and gloss of foliage characteristic of ovalifolium. When in flower it is also extremely handsome, but it sheds its foliage comparatively early in the fall, and thenceforth until spring it has no special attraction.

What Women Are Doing

"In man this blunder still you find,
All think their little set mankind."
HANNAH MOORE.

SACRAMENTO, CAL. Miss Alice Eastwood, of the Academy of Science of San Francisco, one of the leading botanists of California, is to name and classify the trees and shrubbery in Capitol Park. Miss Eastwood is doing this work for the benefit of the tourists and residents of this city who are interested in botanical work, and receives no compensation for her trouble. "As I classify the trees, I will put a temporary tag on them, which will tell the common name, botanical name, and the country of which the tree is native. The temporary tag will be replaced in a few days by a label similar to the labels used in the United States Botanical Garden. When I complete the work I will make a map showing the location of all the trees." — *Sacramento Bee*, Oct. 31, 1904.

SOMERVILLE, N. J. On his great estate near this village, Mr. James B. Duke, the tobacco king, is working night and day at the head of a force of three hundred and fifty men. The splendid estate of 1,700 acres is to have an addition of 700 or 800 acres, which will make it almost as large as Central Park. It is by far the largest private estate owned by any bachelor in this country. His conservatories are second only to those of the botanical gardens in the Bronx. One fountain alone represents an outlay of $200,000. The bronze statuary on the grounds cost $250,000. Single clumps of shrubbery brought from distant parts of the world cost thousands of dollars. One can travel fifteen miles over the farm without traversing the same road twice. The entire grounds are open to the public so long as the visitors obey the rules, which are simple and few. They are to "Keep off the grass," "Do not destroy shrubs and flowers," "Do not deface the statuary," "Do not fish in the lakes," and "Guns and firearms not permitted." There are no closed gates, no fences. The public may come and go and enjoy the beauty of the place almost as freely as the owner himself. In spite of this liberality Mr. Duke has been greatly bothered by vandals and reckless persons. The entire management of the estate falls upon the shoulders of one young girl. Her name is Miss Margaret Smith. If the coachman wants a new whip or the cook a new dishpan, they must go to Miss Smith for them. Upon her weekly expense account are expenditures of $1,200 a day, or more than $10,000 a week. For these payments she gives her personal check, rendering account only to Mr. Duke. She hires and discharges the help. She supervises the directions for house parties and, in fact, superintends every detail of work upon the estate; she is, withal, a charming person. — *The World Magazine*, Oct. 30, 1904.

The Liberty Bell, *en route* from St. Louis to Philadelphia, had a glorious reception in Indianapolis, the car being decorated by a committee representing the State Florists' Association and the route through the city being covered with flowers by the school children. These festivities, together with the elaborate banquet tendered to the Philadelphia Committee, used up large quantities of flowers.

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Park Encroachments

Mr. George A. Parker, vice-president of the Park Department of the American Civic Association, is sending out the following "chaser for information."

Inquiries have been received asking for information regarding the encroachment on parks or public grounds, either by selling for private use or by the location of buildings, public or semi-public, which were not in keeping with the purposes of the park. One inquirer writes:

"I am fighting a building encroachment on our principal public park. Will you do me the favor of sending me any printed matter of information or references conveniently available in regard to the fights other cities have passed through to preserve the integrity of their parks. I want to be able to make specific quotations, and not confine myself to generalities. I am going to have a big fight, and I want as many authorities as I can get."

In another city some citizens are discussing the proposition of selling their public park to pay the municipal bonds due two years hence, and are about to circulate a petition to the next legislature for authority to do so.

Will not all who receive this send in such printed matter as they may have, or write out an account of his knowledge regarding encroachments on parks, whether successful or not? Please consider it in this way: If this was your park that was threatened, would you not be very desirous of obtaining such information as would help you to defend it? If so, then make the effort to send the information to those who are fighting to save their park. The information received to be compiled and sent out as a bulletin from this office. This request will go to every city in the United States of more than 10,000 population. If all report what they know regarding the subject, the result will be a most valuable bulletin. If no encroachment has been attempted on the parks of your city, please write and say none has been made. The record of cities where no attempt has been made is of importance in consideration of the question. Address reply to G. A. Parker, P. O. Box 397, Hartford, Conn.

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The man who is too busy to take time to think over his advertising generally has time later on. — White's Sayings, (Rusty Mike's Diary).



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	Per 100	Per 1000
Lilium Auratum, 8-9 (130 bulbs to case)	$4.75	$42.00
Lilium Auratum, 9-11 (100 bulbs to case)	7.00	67.00
Lilium Speciosum Album, 8-9, scarce (220 bulbs to case)	7.00	67.00
Lilium Speciosum Rubrum, 8-9 (220 bulbs to case)	5.50	52.00
Lilium Speciosum Melpomene (220 bulbs to case)	6.00	55.00

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News of the Clubs and Societies

A spring show to take place before Easter is being talked of by the Buffalo Florists' Club, and the prize schedule will soon be out.

The Gardeners' & Florists' Club of Boston will have a field day at South Framingham, Mass., on Saturday, December 17, visiting several of the growers in that section.

The Louisville, Ky., Florists Society will hold its monthly meeting Tuesday evening, December 6, probably at F. Walker & Co.'s store. Annual election of officers will take place at this meeting.

The Massachusetts Horticultural Society has awarded first prize for school gardens for 1904 to the Fairhaven School, Fairhaven, and second prize to the Groton children's gardens, Groton, Mass.

The Utica (N. Y.) Florists Club has a membership of sixty-two, drawn from as far east as Canajoharie, thirty-five miles, Syracuse, fifty miles west and Norwich, twenty-five miles south. It is a prosperous and useful organization.

The Massachusetts Horticultural Society has made a proposition to the managers of the Boston Flower Market looking to an arrangement for holding the annual Market carnation exhibition in coöperation with the Society at Horticultural Hall.

The Cincinnati Florist Society holds its exhibitions in the club rooms at the Jabez Elliott Flower Market. These shows have always been eminently successful, bringing new varieties of flowers before the public as well as the craft, thereby educating the flower lovers and directly helping the trade.

The annual exhibition of children's herbariums at Horticultural Hall, Boston, took place on Friday and Saturday, November 25 and 26. It was, like its predecessors, a comprehensive display of New England flora, preserved and mounted in a manner indicating painstaking care and love for the study on the part of these enthusiastic young botanists.

The annual exhibit of the State Floral Association of Indiana was held November 15th at Indianapolis, in the agricultural rooms at the State House. No admission fee was charged and hundreds of people admired a fine display of the new and leading varieties of roses, carnations and chrysanthemums. Local florists, as well as florists over the state, made exhibits and the whole affair reflected great credit on all those interested.

The first annual exhibition of the recently organized New London and Groton Horticultural Society was held at New London, Conn., on November 21 and 22. President Thomas W. Head, gardener for Morton F. Plant, was a large exhibitor, with handsome decorative plants and cut bloom. W. A. Manda, Lager & Hurrell, Julius Roehrs, Cottage Gardens, Cohanzie Carnation Co., and the estate of G. Geduldig were among the notable commercial establishments represented by fine displays of their specialties.

The fourteenth annual meeting of the American Carnation Society will be held in the Auditorium Hotel, Chicago, Ill., January 28th and 29th, 1905. The exhibition will be held in the same place, and the hall is almost ideal for exhibition purposes, having a mosaic floor and good ventilation, so that it can be kept cool and damp.

The schedule of rules and prizes is ready and copies may be had on application to secretary A. M. Herr, Lancaster, Pa. The rules and regulations as given are preceded by the following pertinent announcement:

"Read these Rules; they are important and will be followed to the letter."

A word to the wise should be sufficient and there is no need for any exhibitor to be disqualified.

Papers will be read by Prof. Hasselbring on "Carnation Diseases," George Wienholber on "Carnations from a Retailer's Point of View," Fred. Lemon on "Exhibition Carnations,' and C. L Washburn on "Cutting, Packing and Shipping Carnations for Long and Short Distance Shipments."

A special rate of one and one-third fare has been conceded by the railroads for those attending this meeting.

Botanical Society of Pennsylvania

Dr. H. S. Conard of the University of Pennsylvania will be the lecturer at the regular meeting of the Pennsylvania Botanical Society, December 16. His subject will be "The Bark of a Tree." The lecture will take place in the Harrison Lecture Room of the University of Pennsylvania at 3 P.M. Tickets of admission can be procured by writing to Professor Macfarlane. During 1905 the following lectures have been arranged for.

Jan. 14, "The Chemistry of the Tree," Dr. Henry Leffmann.

Jan. 25, "The Distribution of American Trees," Dr. S. C. Schmucker.

Feb. 11, "The Evergreens," Oglesby Paul.

Feb. 25, "The Care of Trees," Alfred S. Haines.

March 11, "A Sugar Camp," Prof. M. G. Brumbaugh.

March 25, "The Trees in Winter," Miss Marion Mackenzie.

April 15, "The Folk Lore of Trees," Prof. A. W. Miller.

During the seven years of its existence these lecture or class meetings on Saturday afternoons, alternating with the general meetings on the first and third Fridays of the month, have proven a valuable feature of the society's work and have met a real need in the educational life of the community. Combined with the excursions which are held during the summer months, these meetings have undoubtedly been of great value in fostering and developing a widespread interest in botanical study.

G. C. WATSON.

One of the most enterprising firms in the West is the Butte (Montana) Floral Co. Last summer they bought out the old established firm of Law Bros. and Al. Wilhelm, who has been for a number of years, head decorator and salesman for the Butte Floral Co., is now manager of both stores, where the displays of roses and chrysanthemums this fall are said to be the finest ever seen in Butte. J. Seitz, formerly with Law Bros., is turning out the best chrysanthemums Montana has seen and R. Miller, a rose grower recently from the East, is equally successful with his specialty.

The Fall Exhibitions of 1904

The story of the shows in detail has already been told to all those interested in them locally or generally, and it only remains now to sum up in a few words the result collectively.

It would appear that the number of November exhibitions was larger than ever before and the attendance upon them seems to have been satisfactory in the majority of cases. The increase in number of shows given through private enterprise has been especially large, and it is to be noted that not infrequently the local florist club has been called into requisition to assist in making the enterprise presentable. This is a reversal of the old method where the club took all the responsibility and was not always successful in enticing outside coöperation. The innovation is a good one from the standpoint of the flower dealer, as it helps his business, stimulates the public interest in flowers, and, at the same time, relieves him of the risks of financing these affairs, a responsibility for which he is proverbially unfitted.

The records show the usual number of new aspirants in the chrysanthemum arena, but the ground has been well-contested by the older favorites, and the evidences of advancement are not striking in any instance. It also appears that varieties of foreign origin have been winning most of the honors, although there are two American novelties, Adelia and Majestic, that are spoken very highly of, and a number of unnamed seedlings of high promise.

In roses several new varieties of American origin have been shown, and high honors have been won, particularly by E. G. Hill's Richmond, previously known as Etna. La Detroit kept up to its good record and Wellesley impressed all who saw it very favorably.

Carnation growers kept their specialty well in the foreground in every exhibition of any consequence. Fiancee, Victory, Robert Craig, Red Lawson, Phyllis and several others merited and won great distinction.

Other novelties that attracted special notice were Begonia Turnford Hall, Geranium Telegraph, and, of course, those omnipresent and invincible ferns, Scottii and Piersonii elegantissima.

As to the big shows, each and every one of them was "the finest ever staged," and far ahead of anything to be seen elsewhere. Still, each had its individuality and pre-eminence in one feature or another. Boston was unapproachable, as always, on trained chrysanthemum plants; the World's Fair Show brought out an unprecedented display of florists' roses; the American Institute display included magnificent orchid groups, and furnished a valuable object lesson in the great value of potted evergreens in securing artistic effects in arrangement. It is said that the management of the Chicago show had to turn away intending exhibitors for lack of room and that Buffalo suffered from the same cause as well as overcrowding by visitors.

Perhaps the most notable example of enterprise was the set of fifty magnificent blooms sent to the Boston exhibition by W. Wells & Co., from England. And many of the blooms showed not a trace of their long journey.

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(To be Disseminated in 1906)

VICTORY

Certificated at St. Louis World's Fair, Chicago, Boston and New York. Its splendid keeping qualities were demonstrated by the fine showing made at distant points, all the blooms having been shipped from New York.

Christmas Greens

The prospects for Christmas Greens are not over-bright this year. What few samples have already appeared on the market are not extra as to quality, and the prices are high. According to the latest reports from Jersey, Delaware, Maryland, and Virginia, holly is light colored and not well berried, and orders are being shipped about 50 per cent short. Lycopodium is fair as to quality, but is about 20 per cent higher in price as compared with last year. Mistletoe is fair quality and normal as to supply and price.

Widespread publicity, incessantly followed up, is to-day essential to business prosperity. We invite the patronage of all having goods or business to advertise, whether large or small, in all horticultural lines. We will see to it that HORTICULTURE reaches the buyers.

ASPARAGUS DECUMBENS, 3 in. pots, 75c per doz., $5.00 per 100.
ASPARAGUS PLUMOSUS, 2 in pots, $3.00 per 100; 3 in. pots, 75c. per doz.; $5 00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, $2 00 per 100; $15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 75c. per doz.; $5.00 ser 100.
BOUVARDIA, white, pink and scarlet, strong plants, $1.00 per doz.; $6.00 per 100.
CLEMATIS PANICULATA, 4 in. $1 50 per doz ; $10.00 per 10 .
EUONYMUS, golden, 2 year, $1.50 per doz.

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in 6 inch pots, recently potted up and heeled in, which we offer for immediate delivery as follows:

Per doz., $3.00
Per 50, 10.50
Per 100, 20.00

Also, a lot of lighter weight 2 year at $2.50 per doz., $9.50 per 50, $17.00 per 100; and 1 year at $2.00 doz., $3.00 per 50, $15.00 per 100.

Edward Campbell

Landscape Architect and Contractor

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THE Perfect Flower Pot Handle and Hanger

Is used for lifting plants out of jardiniers, also for hanging up plants for decorations on walls, etc. Will sustain a weight of 100 lbs. No. 1 will fit from 2 to 5-in. pots, per doz. 30c., No. 2 will fit from 5 to 8-in. pots per doz. 40c; No. 3 will fit from 8 to 12-in. pots, per doz. 50c. Postage 10 cts. ex. per doz; sample pair, 10c. postpaid.

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FLORISTS' TOPICS

Carnation Robert Craig as seen at J. D. Thompson Carnation Company, Joliet, Ill., is superb. Blooms are now 32 inches diameter on 30-inch stems.

The supply dealers are offering wreaths of prepared ruscus foliage which a short distance away, closely imitate the fresh box-wood material.

Judging from the quality of the blooms coming to the New York wholesalers thus far, the "Up-the-Hudson" violet growers have lost none of their proficiency.

Roses in the vicinity of New York have suffered severely from thrips this fall. The loss to growers from damaged buds, of American Beauty especially, must have been very large.

The floral establishment of Michael Conroy at Fall River, Mass., was badly damaged by fire on November 25. Mr. Conroy estimates his loss at nearly $500. There was no insurance on the property.

The new greenhouses at Columbia Gardens, Butte, Mont., are nearly completed and Superintendent R. Siegel expects to be comfortably settled therein by December 15. The new conservatory will be stocked with palms and other show plants under the direction of the assistant florist, Mr. Cocayne.

Indianapolis, Ind., reports business all through the fall as fairly active and now steadily improving. Social affairs, funerals and other events that bring business to local florists have been numerous, and the coming months promise large orders for fashionable teas, banquets and debutante parties. Violets, carnations and roses are coming in more freely and in improved quality. Among the local growers now supplying high grade flowers are the Smith Young place, whose violets are fine; E A. Nelson, with roses and chrysanthemums above the average; John Hartje, with his new Moonlight carnation, and Baur & Smith, with several seedling chrysanthemums and carnations of great promise. Lorraine Begonias at H. W. Rieman's, and general plant stock at Bertermann Bros.', are excellent. Recent trade visitors were J. A. Haugh, Anderson, Fred Lemon, Richmond, Robert McKeand, Marion, W. W. Coles, Kokomo, Peter Weiland, New Castle, Wm. Humfeld, Muncie, Ind., and L. L. May, St. Paul, Minn.

Chicago Wholesale Cut Flower Market

As Reported Nov. 28, 1904.

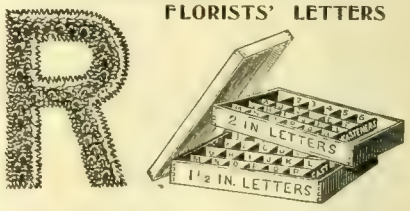
Receipts smaller and prices advanced with ending of chrysanthemums and colder weather. Rose market active, receipts light and demand fair to good. Carnation receipts very light. Longiflorums scarce, callas in good demand. Violet receipts larger than last week and prices firmer. Lily of the Valley sufficient for all demands.

Chicago Wholesale Prices per 100.

American Beauty, four ft. stem, $40; three ft., $25; 30 inch, $25; smaller sizes, $8 to $20. Tea roses, extra, $7 to $8; select, $5 to $6; seconds, $3 to $4. Carnations, fancy, $5; select, $4; ordinary, $2.50 to $3.00. Callas, $12 to $16. Violets, double, $1 to $1.50; single, $.60 to $1.00; Swanley white, $2 to $2.25. Lily of the Valley, $3 to $4. Chrysanthemums, Eaton and late Chadwick, $25 to $33. Stevia, $3. Myosotis, $2 to $4. Paper whites, $3 to $4. Roman hyacinths, $3 to $4. Asparagus, strings, $40 to $60.; sprays, $2 to $3; Sprengerii, $2. Smilax scarce at $10 to $16.

Orchids are C. W. McKellar's great specialty; Vaughan & Sperry have a fine grade of Princess of Wales violets; Peter Reinberg is cutting Uncle John rose in splendid form; the old established Fuchs establishment is for sale on account of ill-health of owner; Weiland & Risch are cutting Beauty, Liberty, Bride, 'Maid and carnations of remarkable quality; their trade has doubled since last year. George Wittbold Co. have a splendid stock of specimen palms and decorative plants. Wietor Bros. are just in season with fine holiday stock.

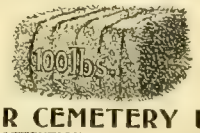
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Thanksgiving Day Reports

Thanksgiving business in Boston was somewhat of a disappointment. Much material that should have been on the ledger by Wednesday night was still in the wholesalers' ice boxes. Carnations were in much larger supply than anticipated and there was a large surplus of white ones left over. Second class carnations were immovable, but the percentage of these was not large, the quality generally being excellent. Roses showed a disposition to lag also. Chrysanthemums were off quality. Their season is waning, yet there have been enough of them on hand to weight down the market. It is not considered that Thanksgiving business fell off any in volume this year, but the weather had been favorable for heavy production.

Louisville, Ky., reports that business conditions were particularly favorable all through the week and Thanksgiving Day caused a good demand for flowers. Chrysanthemums sold very well, and this is also true of carnations, especially the choice grades of which this market had a fair but not adequate quantity. Violets were shy in supply, with a good call. Window displays by William Walker, of High School colors, purple, gold and red, Mrs. C. B. Thompson of pink chrysanthemums, Nanz & Meuner of mammoth chrysanthemums with small red electric lights, and by Mrs. Charles W. Reimers of chrysanthemums and poinsettias, were all very attractive and appropriate. All the above named, also A. R. Baumer and Jacob Schulz, did a fine business. Jacob Schulz, who has an unprecedentedly fine lot of Lorraine begonias, found a brisk sale for them.

Thanksgiving business was the best ever experienced in Baltimore. All stock is reported short at present, with the exception of carnations, of which there are just about enough to supply the demand. Roses are called for in excess of supply and violets are very scarce. Prices to dealers in hundred lots during Thanksgiving week were as follows: Roses, Beauty, extra $35; Nos. 1, 2 and 3, $8 to $25; Bride and Bridesmaid, extra $6 to $8; Nos. 1, 2 and 3, $3 to $5; Perle, $3 to $5; Golden Gate, $3 to $8; Ivory, $4 to $8.

Carnations, Lawson and Enchantress, $2 to $3; other standard varieties, $1.50 to $2.50. Violets, single, $.60 to $1; double, $.50 to $.75. Lilies, $8 to $10. Narcissus, $3. Roman Hyacinths, $2 to $3. Asparagus bunches, $25 to $50; strings, $25 to $50. Smilax, $15 to $25.

A. Wiegand & Sons of Indianapolis, had quite a novel Thanksgiving window. Nearly every product of the farm was represented. A liberal display of moss-covered rail fence, some neatly constructed turkeys of bronze, galax and ponpom chrysanthemums were used. The window was illuminated by a moon shining through a large tree constructed of imported beech sprays.

Chicago reports having enjoyed an ample Thanksgiving supply and good demand, but more or less loss on low-grade or stored flowers. Carnations were abundant. Violets seemed to resent any effort to boom their value.

Flower Market Reports

Boston Wholesale Cut Flower Market

Report for Wednesday, Nov. 30, 1904.

The cutflower market is quite strong, much improvement over Thanksgiving conditions being noticed. American Beauty roses are being received in greatly reduced quantities, violets clean up finely every day and generally healthy conditions prevail in the carnation traffic, the only exception to the prevalent activity being white carnations which lag considerably, owing to the remnants of chrysanthemum crop which yet remain.

Boston Wholesale Prices

Wholesale prices to dealers in hundred lots are quoted as follows:

American Beauty and Edgely, best, $25 to $40; medium, $12 to $20; low grades, $2 to $6. Bride and Bridesmaid, best, $12; medium (best sellers), $6 to $8; Culls, $1 to $3. Liberty, good demand for special, $12 to $15, and common, $6 to $8. Carnations, best, $3 to $4; ordinary, $1 to $2. Violets, $.75 to $1. Chrysanthemums, $6 to $12. Lily of the Valley, $3 to $5. Roman Hyacinths, $1.50 to $2. Narcissi, $1 to $2.50. Cypripediums, $12.50. Cattleyas, $40 to $50. Smilax, $8 to $12. Adiantum, $.75 to $1. Asparagus, $35 to $50.

Summary of New York Wholesale Cut Flower Market

For week ending Monday P.M., *Nov.* 28.

Roses and carnations have been meeting with a fairly good demand and the tendency is toward strength in prices of teas, the better grades of which are in especial demand, especially in the case of Bridesmaid. Bride is steadier than 'Maid in the No. 1 and 2 classes. Of American Beauty there is an ample supply and the demand has been fair. They have, however, reached a figure that cuts out the small dealers, except when a surplus compels a drop in figures and under these conditions, with an increasing cut, the menace of a possible surplus haunts the dealer constantly. The fancy and special grades of Killarney are selling well. Violets are not selling nearly as freely as they did previous to Thanksgiving Day and prices are unsteady. There is an abundant supply of them. In carnations the tendency is towards an increase in quantity. Smilax is very plentiful. Chrsanthemums are heaped up on all sides and any offer buys them.

Current Wholesale Cut Flower Prices in New York City to Dealers, in 100 lots

For week ending Monday P.M., *Nov.* 28.

Roses, Beauty, special, $30 to $40; extra and fancy, $15 to $25; No. 1, $10 to $15; Nos. 2 and 3, $1 to $8; Bride and Bridesmaid, special, $12 to $15; fancy, $6 to $10; Nos. 1, 2 and 3, $2 to $5. Liberty, fancy and special, $12 to $25; No. 1, $6 to $8; Nos. 2 and 3, $2 to $4; Mrs. Morgan and Golden Gate, $2 to $10. Carnations, Lawson, $2 to $4; Enchantress, $3 to $6; general list, $1 to $4. Violets, single, $1 to $1.50; double in fifties, $.50 to $1.25; specials in hundreds, $1 to $1.75. Lilies, $8 to $15. Lily of the Valley, $2 to $4. Roman Hyacinths, $1 to $2. Narcissus, $1 to $2. Adiantum Croweanum, $1.25 to $1.50; Adiantum cuneatum, $.50 to $.75. Asparagus, bunches, $25 to $35; strings, $25 to $50. Smilax, $8 to $12.

Business Changes and New Establishments

W. L. Kennedy of Kennedy Bros., has opened a retail store at 702 N. Fremont Avenue, Baltimore.

E. Law has opened a new flower store on Broadway, Butte, Mon.

William Billingsly of Indianapolis has taken Robert Norwood into partnership.

J. J. Casey has opened a fine new store, under the title of "The Rosary," at Bromfield Street, Boston.

The partnership between C. & F. Davis at Denver, Colo., has been dissolved, F. Davis retiring from the firm.

John Kepner has opened a store at Harrisburg, Pa.

Robert Newcomb of Des Moines and W. E. Kemble of Oskaloosa have bought out their partners' interests in the Morris-Blair Floral Company of Des Moines, Ia.

Sigmund Geller, dealer in florists' supplies, has moved down to the ground floor at 110 W. 28th Street, New York, and has now a very convenient and commodious establishment.

The old store, so long occupied by Robert Veitch & Son at 974 Chapel Street, New Haven, Conn., is being remodelled and will be occupied by Charles Munro.

Ellis Bros., long established as a firm in Keene, N. H., have organized as a corporation under the laws of New Hampshire.

The greenhouses of the Twin City Floral Co. at Benton Harbor, Mich., have been sold and torn down.

Edwin Dove has gone into business, with one greenhouse, at North Leominster, Mass.

Collins & Harrison Company have opened a store at 164 Euclid Avenue, Cleveland, O.

McKerr & Hawley, Canandaigua, N. Y., have dissolved partnership and Mr. McKerr will continue the business.

J. J. Beneke has removed from the store he has occupied for many years at 1220 Olive Street, St. Louis, to 1216 Olive Street.

W. J. Palmer, Buffalo, N. Y., is remodelling his downtown store, and when completed it will be a model in its line.

J. Breitmeyer's Sons of Detroit are preparing to demolish their old buildings on Gratiot and Miami Avenues and erect on the site a large business block, the ground floor to be especially fitted up for their own use as offices, show rooms and work rooms.

The Johnson-Lundy Floral Co. have opened a new store at Pueblo, Colo.

Thomas J. Leyden has opened a first-class flower store at 117 W. Water Street, Elmira, N. Y.

C. E. Smith & Co., 121 North Liberty Street, Baltimore, Md., have remodelled their store and added a conservatory at the rear.

James Burke has bought the greenhouses and business of James Mann, at Ipswich, Mass.

T. W. Hardesty and Howard Oots of Cincinnati have organized as the Lexington Floral Company and are opening a fine store in Lexington, Ky.

S. W. Pike of Akron, O., has sold out his business and retired.

M. Z. Kellogg has opened a new store at 447 East Water Street, Decatur, Ill.

Thomas G. Thrasher, Avon, Mass., has filed a bankruptcy petition. He owes $2743.71. No assets

PIPE WROUGHT IRON vs. STEEL

The question is settled in favor of Wrought Iron for the florist; but the problem is: How to get wrought iron?

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Have proved their standing on this question by their record on "GUARANTEED" WROUGHT IRON PIPE. You get what you order with an absolute guarantee. You get it promptly and you get it at the lowest market rates. Our motto: "PROMPTNESS, LOW PRICES." Mention "Horticulture" when you write.

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One of Chicago's best and oldest retail places newly rebuilt this summer, established 24 years: 100 feet from boulevard, four different cars stopping in front of store, located on two main thoroughfares three blocks to the Lake, Elevated and railroad, consisting of one of the prettiest stores, with large, light basement, and three beautiful conservatories, all highly modern, cement walks, 200 feet long. The store is connected on three sides with greenhouses, all visible from the store and the street, showing waterfalls, grottoes, etc.; patronized by the aristocracy of the city. 2500 apartment buildings are within 10 blocks radius, besides the best residences of the city. The store has marble floors, large mirrors, colonial mantels, steam heat, large refrigerators, showing to the street and store. The view to the conservatories is grand all through; large art glass windows. There is enough glass to grow all the bulbous stalk, the Chrysanthemums, the Azaleas, Lilies and bedding plants, besides 10,000 Palms, 50,000 bulbs, 800 Azaleas, 3,000 Lilies, 200 Araucarias; $500 worth of supplies, $500 worth of boxes, and enough coal for all winter included. Running expenses $16; present owner holds very large real estate, all accumulated here during the last six years, but will sell for a very small price, on account of failing health. Please take the trouble to make a thorough examination. Address MR. CROPP, of J. C. VAUGHAN, to do it for you; can be had at once or later.

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An ILLUSTRATED MANUAL containing suggestions on Lawn Making, Planting and Care of Shrubs and Trees

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It will cost you but 90 cents an inch each week to tell 10,000 people what you have to offer and the price. Send us copy now while you have it in mind.



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HYACINTHS EY. WHITE ROMAN selected, 12 to 15c.; $22 per 1000; $42 per case of 2000.
HYACINTHS EY WHITE ROMAN extra selected, 13 to 15c.; $25 per 1000; $30 per case of 1250.
HYACINTHS DUTCH, Single, all colors mixed, $2.50 per 100; 22.50 per 1000.
HYACINTHS DUTCH, Double, all colors mixed, $2.75 per 100; $25 per 1000.
CHINESE SACRED NARCISSUS, $1 per basket of 30; $3.50 per bundle of 120.
NARCISSUS DOUBLE VAN SION, selected, $12 per 1000.
NARCISSUS DOUBLE ORANGE PHOENIX, $8 per 1000.
CALLAS WHITE, fine roots, $5 per 100.

Please refer to this HORTICULTURE advertisement

HENRY A. DREER

714 Chestnut St., Philadelphia, Pa.

Here are THREE WORTHIES worthy of your consideration:

FIANCEE
The FINEST PINK

THE CARDINAL
The FINEST SCARLET

FRED BURKI
The FINEST WHITE

Without exception, the best in their respective classes. Shown at the Detroit Carnation Convention in March, 1903.

$12 per 100. $100 per 1,000.
250 at 1,000 rate.

S. S. SKIDELSKY

824 North 24th St. Philadelphia

New Hardy Annual

The Gold Medal carmine flowered Tobacco Plant.
Silver Medal, Mass. Hort. Society, Boston, Nov. 3, '04.

Nicotiana Sanderae

Seeds in original packets from all seedsmen throughout the United States.

Gold Medal, London, 1903. Gold Medal Royal Horticultural Society of England, 1904. First-class certificate and Barksian Medal by 24 members Floral Committee R. H. S.

Particulars, illustrations, etc., from

SANDER & SONS
ST. ALBANS, ENGLAND
Wholesale Agents for the United States
Hy. A. Dreer, 714 Chestnut Street, Philadelphia. J. M. Thorburn & Co., 30 Cortlandt St., New York. Vaughan's Seed Store, Chicago and New York.

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts of all Leading Machines
32 So. MARKET ST., BOSTON

Special Offer to Close Out

A magnificent lot of Lilies in prime condition; started now, they will flower readily for Easter, which will be late (April 23, 1905).

7000 LILIUM LONGIFLORUM MULTIFLORUM. 7 x 9. 300 bulbs to a case, $13.20 per case, $44.00 per 1 000.

2000 LILIUM LONGIFLORUM MULTIFLORUM. 9 x 10. 200 bulbs to a case, $14.60 per case, $73.00 per 1 000.

800 LILIUM LONGIFLORUM MULTIFLORUM. 10 x 12. 170 bulbs to a case, $17.50 per case, $100.00 per 1 000.

500 LILIUM HARRISII. Japan grown, 9 x 11. $10.00 per 100. The true Harrisii of fine strain. Try a sample hundred: you will like them.

1000 SELECTED CALLAS. $5.50 per 100, $50.00 per 1 000. Nice round bulbs, suitable for a 6-inch pot. Very choice.

7500 FRENCH FREESIAS. Mammoth Size. Pure White. In fine condition. $5.00 per 1 000; formerly $8.00 per 1 000. A veritable bargain.

Complete Wholesale Catalogue Sent on Application.

Henry F. Michell Co. 1018 MARKET STREET **Philadelphia**

HAVING BEEN AWARDED THE **GRAND PRIZE** For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. **Groff's Hybrids and other sorts, the best obtainable.**

ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York

Write for Catalogue. Mention HORTICULTURE when writing.

AUGUST RÖLKER & SONS
31 BARCLAY ST., or P. O. Box 752, NEW YORK
Supply the American Florists, Nurserymen and Landscape Architects by importing to order their wants in the Horticultural and General Plant Line from the different European Centers
SEND FOR TRADE LISTS

BULBS GIVEN AWAY!

Besides offering our Surplus Bulbs at about one half cost to all purchasers of $10.00 and upwards—we will present

1,000 SPANISH IRIS BULBS—VALUE 5.00—FREE! **Spanish Iris,** being hardy, may be planted either outside or in cold frames, and will stand gentle forcing. As a flower for Decoration Day it has no equal, either as a cut flower or pot plant, having long, upright stems, and large flowers of much substance and various colors

SPECIAL OFFER SURPLUS BULBS, $15.00 FOR $10.00.

LILIUM HARRISII Some of these have commenced to root. This should make little or no difference with their flowering—if planted at once. Otherwise they are in splendid condition, and the best bargain we have ever offered.

Planted now, they will flower just between times—that is, just after the early potted Harrisii and before the Japan Longiflorums; or you can hold them till Easter. We are sure the following prices will interest you.

Your choice of sizes. All same price, difference only in number of bulbs cases contain.

$8.00 PER CASE. REGULAR PRICE, $16.00.

5 to 7 in. bulbs are packed 400 in a case. 6 to 7 in. bulbs are packed 300 in a case. 7 to 9 in. bulbs are packed 200 in a case.

When less than whole cases are wanted, add 10 per cent. to above prices for packing and boxing.

WHITE ROMAN HYACINTHS **13 to 15 ctm., 1700 in a case, $2.50 per 100; $22.50 per 1000, worth $30.00.**

MISCELLANEOUS BULBS

	Doz.	100
Achimenes in Variety,	$0.40	$2.00
	100	1000
Allium, Neapolitanum,	$0.45	$4.00
" Luteum	.20	1.00
" Roseum	.40	2.00
" Azureum	.50	2.50
" Mollis	3.00	25.00
Callas, White, 1 to 1½ in	2.00	15.00
" " 2 to 2½ in	9.00	
" Black, 1½ to 1¾ in	1.75	15.00
" " 1¾ to 2 in	3.00	25.00
" " 2 to 2½ in	3.50	30.00
" Red	1.00	7.00
Chionodoxa, Gigantea	.50	4.50
Freesia, Refracta Alba, select	.50	3.00
Freesia, Leichtlini Major	1.00	8.00
Gladiolus, Colvillsi, Rubra	.75	5.50

	100	1000
Gladiolus, Blushing Bride		$2.00
Hyacinthus Candicans	$1.25	10.00
Hyacinth, Starch, Blue	1.25	
Feathered, Large	1.25	
Grape, White	.55	4.25
Leucojum, Aestivum	.75	5.00
Oxalis, Bermuda Buttercup	.50	4.50
Oxalis, Hirta	.55	4.50
" Simplex	.60	4.00
" Bowiei	.50	4.50
" Grand Duchess, in 3 color	1.00	7.50
Ranunculus, Persian	.40	2.50
" French	.25	2.00
" Turban	.50	4.00
Scilla, Nutans	1.00	
Triteleia, Uniflora	.30	2.00
Watsonias	5.00	

FORCING FLOWERING SHRUBS

SPIREAS

Ready now, packed in cases of 150 clumps. Orders for case lots will be furnished at the thousand rate.

	Doz.	100	1000
Gladstone	$1.50	$10.00	
Superbe	1.00	6.00	
Japonica	.75	4.00	$38.00
Compacta Multiflora	.75	5.00	45.00
Astilboides Floribunda	.75	5.00	45.00
Palmata	1.00	6.00	

LILACS — For Forcing

Pot-grown Now Ready.

	Ea.	Doz.	100
Marie Legrays	$ .75	$6.50	$45.00
Chas. X	.75	6.50	45.00
Mme. Cassimir Perier	1.00	9.00	60.00
Mme. Lemoine	.75	6.50	45.00

DEUTZIAS — Pot Grown

	Ea.	Doz.	100
Gracilis	$ .15	$1.50	$12.00
Lemoinei	.25	2.50	18.00

TULIP BULBS Early and Late Single Best Named Varieties, all guaranteed strictly selected, first size bulbs, and true to name.

SINGLE NAMED VARIETIES — First Size Flowering Bulbs

	Per 100	1000
Due Van Thol, rose	$2.00	$17.50
White	1.75	15.00
Yellow	2.00	17.50
King of the Yellows	1.80	16.00
La Reine	.75	6.00
Mon Tresor	2.00	17.50
Pottebakker, white	1.25	11.50
Yellow	1.20	10.00
Princess Mariana	.90	7.50
Prince of Austria	2.75	25.00
Proserpine (True)	2.25	20.00
Rachel Ruisch	1.10	9.00
Rose Grisdelin	1.25	10.00
Rose Luisante	2.75	25.00
Rosamundi Huikman	.80	6.50
Standard Royal Silver	1.25	12.00
Vermilion Brilliant (True)	2.25	20.00
Superfine mixed, all colors	.75	6.50

DOUBLE NAMED VARIETIES

	Per 100	1000
Gloria Solis	$1.25	$10.00
Murillo	2.25	19.00
Imperator Rubrorum	1.25	11.25
Salvator Rosa	4.00	35.00

SINGLE LATE OR MAY-FLOWERING

By blooms	$0.90	$8.00
Darwin	1.40	13.50
Maiden's Blush	1.60	15.00
Bridesmaid	1.75	15.00
Beauty of America	3.00	28.00
Bouton d'Or	.90	8.50
Golden Crown	1.00	7.50
Isabella	2.25	20.00
Single Late, mixed	.80	7.00

PARROT TULIPS

Admiral of Constantinople	$1.15	$9.00

DOUBLE ROMAN NARCISSUS, same as Paper White; tint, yellow (sweet scented). Large bulbs, 1200 in a box, $8.75 per 100, $6.00 per 1000.

MIXED HARDY NARCISSUS. This mixture consists of small surpluses of choice named seeds, which run as high as $25.00 per 1000. We have mixed them all together, and are offered, until sold, at $10.00 per 1000; $1.25 per 100

CHINESE SACRED NARCISSUS $30.00 per 1000; or one mat of 120 bulbs, $4.00; per basket of 30 bulbs, $1.10.

IMPORT LILY OF THE VALLEY. Ready now. **"Rip Van Winkle,"** Our Best Brand, has convinced the largest growers of Valley that none can approach it for earliest forcing, abundance of foliage, and size of flowers. Per 100, $1.60; per 1000, $13.50; per case of 2500, $32.50. **Berlin Pips,** Strong 3-year-old, $1.25 per 100; $11.00 per 1000, or $25.00 per case of 2500. **Hamburg Pips,** Strong 3-year-old, $1.15 per 100; $10.00 per 1000, or $22.50 per case of 2500. **Clumps,** for outdoor planting, each $0.30, per doz., $2.50; per 100, $15.00.

COLD-STORAGE VALLEY. See page 51 of this paper.

CLUCAS & BODDINGTON CO.

312-314 GREENWICH ST., N. Y. CITY, Corner of Jane St.

Telephone, *1063 Chelsea.* PALISADE NURSERIES, Sparkill, N. Y.

Importers, Exporters & Growers of Seeds, Bulbs & Plants

Greenhouses Building or Projected

INDIANAPOLIS, IND. — Indianapolis Flower & Plant Co., range of houses. Baur & Smith, range of houses.

ONSET, MASS. — Nelson Huckins, one house.

ANNAPOLIS, MD. — Rudolph Kaiser, house 20 × 100.

JOLIET, ILL. — Joseph Labo, house 35 × 200.

LEBANON, N. H. — Haskel Floral Co., house 30 × 130.

CADILLAC, MICH. — Kleinhans & Mason, house 18 × 50.

MONTROSE, MASS. — Montrose Greenhouses, extension 54 × 300.

DES MOINES, IA. — J. F. Marshall, range of vegetable forcing houses.

ARLINGTON, N. J. — George Penek, range of houses.

BRISTOL, R. I. — Samuel Kinder, one house.

NORTHBORO, MASS. — John Lowe, one house.

SECANE, PA. — Philadelphia Carnation Co., house 176 feet long.

BALTIMORE, MD. — John McCormick, rose house, 150 feet long.

WILLIAMSVILLE, N. Y. — Byrnes Bros., two houses.

BELFAST, ME. — W. E. Hamilton, one house and office building.

BUTTE, MONTANA. — Columbia Gardens, conservatory forty feet high, with ornamental potting shed, rose house, carnation house and three plant houses, each 22 × 100.

LEAD, S. D. — Alex. Rose, two houses.

DEADWOOD, S. D. — A. McDowell, vegetable forcing house.

HORNELLSVILLE, N. Y. — W. J. Bowen, one house.

GROVE CITY, PA. — Frank Smith, one house.

NORTH STOUGHTON, MASS. — B. F. Washington, carnation house, 25 × 50.

WOBURN, MASS. — Alex. Porter, two houses, each 24 × 150.

GRAND HAVEN, MICH. — S. A. Harvey, range of houses.

LOS ANGELES, CAL. — J. W. Wolfskill Nurseries, rose house, 26 × 350.

Miscellaneous Notes

Hinsdale, Mass., hardy fern gatherers, report ferns several millions short of the usual supply this season.

Rennie & Pino of Providence, R. I., report an excellent fall business with bulb stock short of the demand.

Vitis rhomboides, with handsome trifoliate leaves of leathery texture, has all the desirable qualities of an evergreen climber for dwelling-house cultivation.

They continue to say good things about C. W. Ward's phenomenal scarlet carnation, Robert Craig. This is evidently one of the varieties which loses nothing in estimation on long acquaintance.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column

F. J. Clark has purchased the seed business of Carl E. Taube, Trenton, N. J.

H. A. Dreer is putting up a large seed warehouse on Locust Street, Philadelphia.

Charles P. Braslan of San Jose, Cal., started November 20 on his annual eastern trip.

H. E. Meeker & Co., Bay City, Mich., have incorporated as the H. E. Meeker Seed Company.

The Capital Seed Company of Des Moines, Ia., have purchased the Hawkeye Seed Company's business.

The Western Seed Company is erecting a new warehouse at Shenandoah, Ia., with storage room for 9,000 bushels of corn and seeds.

Dealers were early sold out of crocuses and Poets' Narcissus bulbs and the demand left unsupplied is large. The custom of planting these favorite early spring bloomers in the grass so that they will come up in nooks on the fringes of plantations and alongside garden walks is growing, as it should with those who appreciate artistic home surroundings.

GREENS
AN UNLIMITED SUPPLY

THE LEO NIESSEN CO.
(INCORPORATED)
WHOLESALE FLORISTS
1217 ARCH STREET PHILADELPHIA

WILD SMILAX
GALAX LEAVES
FERNS
LEUCOTHOE SPRAYS

Notes on Philadelphia Cut-Flower Trade

For the week ending November 26th (Thanksgiving week) S. S. Pennock reports as follows:

Beautys: demand pretty fair; prices stiffening quite a little. Libertys: about the same as Beautys; the demand for all red roses was good for the week. Brides and others: market about normal. Carnations: quality improving and prices getting better. Chrysanthemums: good demand and fair prices. There was a run on yellow for the army and navy game. Lily of the Valley: going O.K., good demand, good quality, good price. Orchids: cattleyas very scarce, Dendrobium formosum to be got in quantity, also phalænopsis cypripediums and Vandas plentiful. Paper Whites: plentiful and not going fast. Romans: only a few in the market yet and not much demand. Christmas Greens: very little holly has arrived as yet in this market. Crop promises poorly, light green and not extra well berried. Lycopodium good and plenty of it, prices a shade higher than last year. Wreathing and mistletoe about normal as to supply and quality.

Edward Reid, for the same period, reported as follows: Beautys: in brisk demand, especially the shorter grades; long stems did not go so well and were not so remunerative in proportion. Libertys: moved good. Brides and others: good demand for good stuff; seconds went for anything we could get. Kaizerin on the wane — no one seems to want it now. Carnations: early in the week scarce and bringing good prices on account of the brisk out-of-town demand; but a glut on Thursday with poor returns, the result of holding back on Monday and Tuesday. Growers are apt to forget that the shipping trade requires the stock about 3 days earlier than the city demands. Best sellers were Enchantress, Lawson, Nelson and Dorothy. Thinks Flora Hill still holds first place in whites, if well grown. Violets: very scarce; a great many more could have been sold. Chrysanthemums: moved well but no advance in price. Best sellers were Bonaffon, both white and yellow, Maud, Dean, and Mrs. Jerome Jones, both white and yellow. The call for yellow for the army and navy game far exceeded the supply. Lily of the Valley: moved well at about normal figures. Paper Whites: slow. Romans: not many around; demand fair. Greens: big demand for Asparagus plumosus.

Philadelphia Price Quotations for week ending Monday P.M., November 28. Rates per hundred to dealers:

Roses: Beauty, fancy to special, $25 to $40; No. 1, $15 to $20; Nos. 2 and 3, $6 to $12.50. Bride and Bridesmaid, fancy to special, $6 to $10; Nos. 1, 2 and 3, $1 to $4. Liberty, fancy to special, $12.50 to $20; Nos. 1, 2 and 3, $2 to $10. Golden Gate, fancy to special, $5 to $10; Nos. 1, 2 and 3, $1 to $4.

Carnations: Lawson and Enchantress, $3 to $5; common, $1 to $2; fancy, $3 to $4; novelties, $4 to $6.

Violets: Single. $.50 to $.75; double, $.75 to $1.50; special, $1.50 to $2.

Chrysanthemums: common, $12 to $16; fancy, $25 to $35.

Narcissus Paper White, $2 to $3. Roman Hyacinths, $2 to $4. Poinsettias, $12.50 to $40. Cattleyas, $60. Cypripediums, $15. Vandas, $20. Dendrobium Phalænopsis, $8 to $10. D. formosum, $40. Adiantum Croweanum, $1.50. A. Cuneatum, $.75 to $1. Asparagus, $25 to $50. Smilax, $12 50 to $15.

The numerous friends of Edgar Sanders will be rejoiced to learn that the old veteran has recovered from his long illness sufficiently to permit him to go downtown for the first time since July, 1902, and see the exhibition at Chicago.

Personal Items

Continuous advertising wears away dull times.

I. N. Kramer, Cedar Rapids, Ia., and B. G. Lambros were visitors in Chicago this week.

George W. Wienhoeber of Chicago, has just returned from a trip to the World's Fair.

Sidney Smith, Indianapolis, has been on the sick list for several weeks but is now improving.

Mr. and Mrs. Timothy O'Connor of Providence, R. I., are sojourning at the Arkansas Hot Springs.

George B. Windler of St. Louis was married to Miss Anna Margaret May on Tuesday, November 22.

From Buffalo comes the report of gratifying activity and excellent shipping trade for Thanksgiving.

James Dangelzer, formerly employed at Columbia Gardens, Butte, Mont., has gone to Albuquerque, Mexico.

Miss Josepha Then of Chicago was given a surprise party in honor of her 18th birthday. Quite a number of the trade were present.

A. P. Calder, formerly of Dorchester, Mass., is meeting with success in his new business at Brockton, where, under the title of the Calder Floral Company, he has two new greenhouses, for the product of which he finds a good local market.

Joseph R. Freeman, vice-president-elect of the S. A. F., and Mrs. Freeman celebrated the twenty-fifth anniversary of their marriage, at their home in Washington, D. C., on Saturday evening, November 26. A large concourse of friends extended congratulations and hearty good wishes.

VAUGHAN & SPERRY
WHOLESALE FLORISTS AND FLORISTS' SUPPLIES
60 Wabash Avenue, Chicago, Ill.

HOLLY
Fine Stock and well berried
Both Eastern and Southern

CHRISTMAS BELLS
Immortelles and Cape Flowers

SO. WILD SMILAX
Small Case, $3.00
Med. Case, $4.00
Large Case, $5.00

Mistletoe Green and Green Wreathing
Bronze and Green Galax Leaves and Cut Flowers of all kinds
Write for special prices

R. C. HAYDEN, Secretary and Treasurer WILLIAM J. MUTH, Manager

THE PHILADELPHIA CUT FLOWER CO.

Wholesale Commission Merchants

High Grade Seasonable Cut Flowers

OUR SELECTED SPECIALTIES:

BEAUTYS, BRIDES and MAIDS; FANCY ENCHANTRESS, LAWSON, PROSPERITY, ETC.

A TRIAL ORDER IS REQUESTED

1516-1518 SANSOM STREET . . . . PHILADELPHIA, PA.

SPECIAL OFFER

JAPAN LONGIFLORUM LILIES

7–9 inch Bulbs

300 to the case at $3 per 100, $27 Per 1000.

SCHLEGEL & FOTTLER CO.

26 & 27 So. Market St. Boston, Mass.

Schlegel & Fottler Company announce that they have secured the entire building at 26 and 27 South Market St., Boston, a part of which they have occupied for many years, and in future their principal salesroom will be on THE STREET FLOOR.

Pennock Bros.

Retail Orders Filled and Promptly Delivered

1514 CHESTNUT ST.

Philadelphia, Pa.

Palms, Ferns and Decorative Plants

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.

A large assortment of Ferns for Jardinieres

Also, Arancarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc. . . . . .

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & COMPANY

Importers and Exporters
Growers and Dealers....

PERKINS STREET NURSERIES

Roslindale, Boston, Mass.

PETER

REINBERG

CHICAGO

To keep up with the Advancement in Floral Taste

"Never look for birds of this year in the nests of the last."

Our New Things that have never been seen previous to this season comprise Christmas Hampers, 14, 18 and 24 inches long, of chip ribbon, with hand-painted cones and holly twigs on cover; Prepared Ruscus Wreaths; Leaves and Wreaths of Fancy Cycas, in red bronze, silver and gold finish; Rainbow Effect Baskets and Pot Covers, beautiful tints; Bamboo Pedestals; Quaint Designs in High-class Fern Dishes; French Wedding Baskets of dainty workmanship; Fancy Bisque Violet Holders; Silk Fibre Ribbon, all colors; Miniature Artificial Bay Trees; Folding Screens for use in decorations, extremely useful.

We have new stocks of Porto Rican Mats, Moss Wreaths, Bead Wreaths, Water-proof Crepe Paper, Velour Bells, Immortelle Bells, Folding Paper Bells, Colored Cape Flowers, Preserved Magnolia and Laurel Wreaths, Majolica Swan and Duck Flower Holders, and a full line of all ***Standard Supplies for Florists' use.***

At our prices there is good Christmas money in all the above goods. Send order to-day

H. BAYERSDORFER & CO., 50-56 North 4th Street, Philadelphia, Pa.

CATTLEYAS	per dozen,	$6.00 to $7.00
DENDROBIUMS	" "	3.00 to 5.00
CYPRIPEDIUMS	" "	2.00 to 3.00
Assorted Orchids and Sprays	box	5.00 to 25.00

ORCHIDS

AND

FANCY CUT FLOWERS

A SPECIALTY

If you want Choice Cut Flowers at any time or all the time, send to

Charles W. McKellar

51 Wabash Avenue, CHICAGO

Western Headquarters for Choice

ORCHIDS, FANCY VALLEY, VIOLETS, BEAUTYS, TEA ROSES, CARNATIONS and CHRYSANTHEMUMS. Wild Smilax, Asparagus, Adiantum, Smilax, Fancy Ferns, always in abundance. Also a complete line of all Florists' Supplies, Novelties and Iron Work.

L. D. 'Phone, Central 3598. Auto. 3623

Buffalo Wholesale Flower Market Report

Roses and carnations of the best grades are selling readily and are frequently in short supply. Second quality stock is more plentiful. Chrysanthemums are still with us in quantity. The high price which we were forced to demand for violets at Thanksgiving has scared the public, consequently we now have more violets than we can dispose of. Such stock as Roman hyacinths, paper whites, lily of the valley and stevia are not moving very fast. Smilax is very plentiful.

Buffalo Wholesale Prices

Reported for Nov. 28, 1904, to dealers, in hundred lots: —

American Beauty Special, $33 to $50; extra, $20 to $25; No. 1, $12.50 to $15; Culls, $2 to $5; Bride and Bridesmaid, extra $8 to $10; No. 1, $5 to $6; No. 2, $3 to $4; Cusin, $2 to $6; Golden Gate, $2 to $8; Kaiserin, $2 to $8; Liberty, $3 to $12; Meteor, $2 to $8; Mrs. Morgan, $2 to $6; Perle, $3 to $5; Cattleyas $50 to $60. Carnations, Novelties, $6 to $8; fancy, $3 to $5; standard, $2 to $2.50; inferior, $1 to $1.25. Callas, $8 to $12.50. Chrysanthemums, fancy, $12.50 to $25; ordinary, $4 to $10. Roman hyacinths, $3 to $4. Lilies, $15. Lily of the Valley, $3 to $5. Mignonette, $3 to $4. Narcissus, $2 to $3. Stevia, $1 to $1.25. Violets, extra, $1.25 to $1.50; ordinary, $.75 to $1. Adiantum, $.50 to $1. A. Farleyense, $10 to $12. Asparagus plumosus, $40 to $60. A. Sprengeri, $1 to $3. Smilax, $12.50 to $15.

ADIANTUM CROWEANUM

THE NEW MAIDENHAIR FERN

Awarded a Gold Medal at the World's Fair, 1904

Send in Orders which will be filled Promptly at the following prices:

Strong 3 inch pot plants.	$5.00 per dozen
" " " "	35.00 per hundred
" " " "	250.00 per thousand

25 at hundred rates; 250 at thousand rates. Booklet on culture with every shipment

NEW CRIMSON CANNA

Did you see it at St. Louis, the new Crimson Red Canna?

MRS. WM. F. KASTING

Height 3 1-2 feet, most brilliant in color, most prolific of all red cannas. Blooms continuously. Exceptionally fine for conservatory decoration. Awarded on its merits a GOLD MEDAL at the World's Fair, 1904.

$1.00 each; $9.00 a dozen; $50.00 a hundred, stock limited.

THE NEW CARNATIONS

FIANCEE. Best of all pinks

THE CARDINAL. A fine scarlet

FRED BURKI. The well known white

GIBSON BEAUTY AND ROBERT CRAIG. Well known to the trade

To be sent out at the following prices, early in 1905

$12.00 a hundred; $100.00 a thousand. 25 at hundred rates; 250 at thousand rates.

PALMER'S RED LAWSON

Introduced by Mr. W. J. Palmer. (The Lawson blood in carnations needs no introduction)

$10.00 a hundred; $40.00 for five hundred; $75.00 a thousand. Ready now

CHRISTMAS GOODS, such as HOLLY, GROUND PINE, LAUREL ROPING and ALL KINDS of GREEN GOODS. Prices on Application.

Manufacturer and dealer in FflorISTS' SUPPLIES AND WIRE DESIGNS. Flowers handled on commission

WM. F. KASTING WHOLESALE FLORIST

383-385 Ellicott St., Buffalo, N.Y.

ESTABLISHED
1887

TELEPHONE
167 Madison Sq.

Always Trustworthy and Reliable for FLOWERS CONSIGNED or ORDERS GIVEN.

J.K.ALLEN

106 W. 28th St.
New York City

Open at 6 o'clock every morning with a full assortment of cut flowers for all purposes. Stock shipped promptly for

EARLY OR LATE ORDERS

Roses, Carnations, Violets, Chrysanthemums, Orchids, Bulb flowers, Greens of all kinds.

WRITE FOR HOLIDAY PRICES NOW

Geo. Saltford

WHOLESALE FLORIST

46 WEST 29th ST., - NEW YORK
Telephone 3393 Madison Sq.
Consignments Solicited

Chas. Smith

Wholesale Florist

At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.

WHOLESALE FLORISTS

55 and 57 W. 26th St.
Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND

Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand.

A. L. YOUNG & CO.

Wholesale Florists

54 West 28th Street, NEW YORK

Telephone, 3559 Madison Square

Receivers and Shippers of Cut Flowers
Consignments Solicited
Prompt Payments
Fair treatment assured to all
Get your orders in for Christmas

GOOD ROSES, VIOLETS
CARNATIONS, STEVIA
SMILAX, ETC., ETC.

SEND FOR QUOTATIONS
CORRESPONDENCE INVITED

BERGER BROTHERS

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

Roses, Carnations

EVERYTHING IN
CUT FLOWERS

OUR MOTTO { GOOD { STOCK / TREATMENT / PACKING

EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA

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WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...
Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA
Write for Price List and Samples

JAMES HART

THE ORIGINAL
Wholesale Florist

FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

To Out of Town Buyers

When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try

...BAKER...

THE Oldest Wholesale Florist in Philadelphia
Address: 1432 SO. PENN SQUARE

DON'T WORRY

When you want Cut Flowers right quick and cheap, call on us. We have had the prize winners for the last two years at the leading exhibitions, and our Stock is better this year than ever before.

REMEMBER WE ARE SHIPPING SPECIALISTS

and **grow** the flowers we ship, and we **guarantee** to ship **only first day's cut**, and to ship the best that the market affords and always at the market prices. Your interests are safe with us, because we have no other interests but yours. We issue every week a price list, and if you wish to receive it, send us your name on a postal card

WEILAND & RISCH

LEADING WESTERN GROWERS AND SHIPPERS OF CUT FOWERS

59 WABASH AVE.

CHICAGO

Young & Nugent

42 West 28th St. New York

TELEPHONES, 2065, 2066 MADISON SQ.

ORCHIDS, GARDENIAS, VIOLETS, ROSES, CARNATIONS

and a large assortment of other Flowers, according to season.

TO BUYERS: Send us your orders. We will ship you Flowers, none better. Not cheap ones, but best in New York. Give us a trial and you will not be disappointed.

The usual abundance

of Good Flowers

ALL VARIETIES WILL BE IN STOCK

For Christmas

and may be had at market prices by ordering from

JOHN I. RAYNOR

49 WEST 28TH STREET, NEW YORK

Write early for prices on regular and fancy varieties of Roses and Carnations, Violets, Lily of the Valley, Lilies, Narcissi and Roman Hyacinths

The ENTIRE STOCK of many of the largest and best growers is handled here

TELEPHONE, 1998 MADISON SQUARE

WALTER F. SHERIDAN

Wholesale Commission Dealer in

Choice Cut Flowers

Offers as Christmas Specialties

American Beauty, Violets and Carnations of Superb Quality

These and all other varieties may be found at

39 West 28th Street, New York

TELEPHONE:
902 MADISON SQ.

Order a Sample Shipment and be convinced of our Superior Up-to-date Stock and Service. A few of our Specialties:—

GARDENIAS
WHITE ORCHIDS
VALLEY (the Pennock brand)
CYPRIPEDIUMS
BEAUTIES
LIBERTIES
FANCY CARNATIONS

—●—

Holly, Mistletoe, Lycopodium and Boxwood for the Holidays. Christmas Ribbons, Bells, Wreaths, etc. Prices on Application.

—●—

We are Leaders in Novelties. Our Motto:
"IF IT'S NEW OR RARE, WE HAVE IT."

SAMUEL S. PENNOCK

The Wholesale Florist of Philadelphia

Reduce Christmas Vexations

MAKE FLOWER SELLING A PLEASURE AND A PROFIT

By securing a stock of Choice Cut Flowers that will give distinction to your establishment and PLEASE PARTICULAR CUSTOMERS. IF YOU WANT THAT KIND, YOU CAN GET THEM FROM

John Young

WHOLESALE CUT FLOWERS

51 West 28th St., New York. Telephone, 1905 Madison Sq.

Best Beauties, Brides and Bridesmaids in the city. Special Violets, Lily of the Valley, Orchids and Lilies. RENOWNED COTTAGE GARDEN CARNATIONS SOLD HERE EXCLUSIVELY. A FINE LINE OF NOVELTIES.

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100 TONS
Bouquet Green
The kind that put us "on top of the ladder"
Original Crates, 100 lbs., $5.00

Wire or Write for prices in larger quantities

350,000 Yds.
EVERGREEN WREATHING

made from Select Bouquet Green. Wire-bound. Put up in coils of 20 yards 10 coils neatly packed in a crate . . . . . .

100 yards, $3.50; 1000 yards, $30.00

SPECIAL
Holiday Circular
Mailed on Application

50,000
Christmas Trees
SELECT STOCK
Please Order Now!

	Each	Doz.	100
4 to 6 feet . .	$ .20	$1.75	$12.00
6 to 8 " . .	.30	2.70	18.00
8 to 10 " . .	.50	5.00	40.00
10 to 12 " . .	1.00	9.00	70.00

Church Trees
at $1.50, $2.00, $3.00 and $5.00 each

4000 CASES
...Fancy Holly...
The kind that "pushed itself to the front"
Per Case, $4.50
5 Cases for $20.00

50,000
HOLLY WREATHS

Made on 12-inch Rattan rings from select, well-berried Holly. Splendid Sellers

Per doz. $1.50; per 100, $10; per 1000, $90

MISTLETOE, NEEDLE PINES AND WILD SMILAX

Immense purchases enable us to make very low prices

FANCY STOCK—PROMPT SERVICE—LOW PRICES

NO Extra Charge for EXTRA Care

Long Distance 'Phone Main 2135

W. W. BARNARD & CO.
161-163 E. Kinzie St., CHICAGO

F. H. TRAENDLY CHAS. SCHENCK

TRAENDLY & SCHENCK

FLOWERS

Are the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. Splendid stock is now coming in and the holiday crop will be JUST RIGHT. Look up your last year's Christmas trade and figure out your needs for this year. If you want BEAUTY, BRIDESMAID, BRIDE, LIBERTY, GOLDEN GATE, or IVORY ROSES, LILIES, VIOLETS, ORCHIDS, ASPARAGUS, CARNATIONS WHITE OR COLORED, POINSETTIAS, HYACINTHS or NARCISSI, we are prepared to furnish what you require, all GOOD MATERIAL and REASONABLE PRICES. But don't put it off until the last. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 WEST 28TH STREET, NEW YORK CITY

Telephones, 798-799 Madison Square.

. . . JULIUS LANG . . .

CHRISTMAS Roses, Carnations, Violets, Poinsettias, Lilies. Your order for the Holidays placed now will have careful attention and will be filled with Choice, ABSOLUTELY FRESH Stock. Consignments received, sold well and returns made promptly.

JULIUS LANG, Wholesale Florist

53 West 30th Street, New York — Telephone, 280 Madison Sq.

VIOLET AND CARNATION GROWERS

Will find now, as for many years in the past, a reliable and profitable market for their flowers with

W. H. GUNTHER

30 West 29th Street, New York

Recognized Headquarters for High Quality Flowers

17 Years Established :: Telephone, 551 Madison Sq.

William Stuart Allen Company

COMMISSION MERCHANTS IN CUT FLOWERS

Orchids at all Seasons

53 West 28th St., New York City

Telephone, 356 Madison Square

WHEN YOU WANT

ORCHIDS

IN LARGE OR SMALL QUANTITIES, SEND TO

James McManus

50 West 30th St.,
NEW YORK CITY.

All the Most Beautiful Varieties grown.
Largest Stock in United States.
Also Special Lily of the Valley.
Choicest Roses, Carnations, Violets.

Telephone 759 Madison Square.

Orchids Carefully Packed for Shipment.

THIS IS HORTICULTURE'S INITIAL BOW TO THE TRADE AND WE WISH IT SUCCESS.

If YOU would be successful send your orders to :: :: ::

EDW. C. HORAN

Wholesale Florist

55 W. 28th St.

NEW YORK

TEL. 1462 1463 MADISON SQUARE

CUT FLOWERS IN FANCY GRADES

Regular and Special Qualities
of all desirable Holiday Stock

SHIPPED AT WHOLESALE MARKET PRICES

Orders from out-of-town florists for flowers loose or arranged, TO BE DELIVERED IN NEW YORK CITY OR ENVIRONS, will have careful attention and will be filled in best style in *Retail Department.*

THOMAS YOUNG, JR.

43 West 28th Street, New York City

SINNER BROTHERS

58-60 Wabash Ave. **CHICAGO**

Headquarters for Ferns, Holly and Xmas Bells

BEING located in the Growers' Market, with large supplies from our own greenhouses and the stock of two-score of the best growers to draw upon, we have facilities second to none for the prompt and satisfactory handling of shipping orders.

Give us your order now, you will not be disappointed

...Price List...

BEAUTIES	Per doz.
Long stemmed	$4.00 to $5.00
30-inch	3.00
24-inch	2.50
20-inch	2.00
15-inch	1.50
12-inch	1.00
Short stemmed	
	Per 100
Bride	$4.00 to $8.00
Bridesmaid	4.00 to 8.00
Meteor	4.00 to 8.00
Gate	4.00 to 8.00
Chatenay	4.00 to 10.00
Liberty	4.00 to 10.00
Carnations, good	1.50 to 2.50
" fancy	3.00 to 5.00
Violets	.75 to 1.50
Valley	4.00
Callas ...per doz.	1.50
Asparagus, strings, each	.50
" sprays, bunch	.50
" Sprengeri	2.00 to 4.00
Adiantum	1.00 to 1.25
Smilax ..... per doz.	1.50

When you want a REGULAR and RELIABLE Market

For your ROSES, CARNATIONS, VIOLETS, POINSETTIAS or LILIES, ship them to

FORD BROS.

111 WEST 30TH STREET, NEW YORK

.... Many others are doing it and, once with us, THEY STAY ....

CORRESPONDENCE INVITED

Buyers can now place their orders for shipments of Holiday Flowers. We are the leading dealers in UP-HUDSON VIOLETS and FANCY CARNATIONS. A full line of all other CUT FLOWERS.

Order by mail, express, telegraph, or telephone 3870 or 3871 Madison Square.

AT THE FLOWER MARKET

Open for business 6 A.M.

Everything the market affords, AT MARKET PRICES. Orders received for shipping and promptly filled with absolutely fresh stock, personally selected.

Frank Millang,

Growers' Market,
55-57 W. 26th Street,
NEW YORK.

Telephone, 299 Madison Square.

Wietor Bros.

Wholesale Growers of

Cut Flowers

51 Wabash Avenue

CHICAGO

FOR CHRISTMAS USE

AND FOR ANY AND ALL OTHER REQUIREMENTS I SHALL HAVE

AMERICAN BEAUTY

In all grades up to the topmost

BRIDE, BRIDESMAID, METEOR, LIBERTY GOLDEN GATE, IVORY

and other STANDARD VARIETIES of ROSES

VIOLETS

The Cream of the Rhinebeck Product, nothing in the world to excel them; any quantity if ordered in time

Poinsettias, Lily of the Valley, Harrisii Lilies, Roman Hyacinths, Paper White Narcissi, Carnations and all other flowers in season. Every variety of choice green material.

ALL SELECT STOCK FROM THE

BEST GROWERS IN THE COUNTRY

LARGEST SUPPLY IN NEW YORK MARKET RATES PREVAIL ALWAYS

WM. GHORMLEY

57 West 28th Street New York City

Telephones, 2200-2201 Madison Square

Stock Plants. New Pompon Chrysanthemum

"BABY"

The smallest and prettiest of all the pompons. Color, clear, rich yellow; form, very symmetrical. It has been the best selling plant we have had this season, a house full, 150 feet long, being entirely sold in one week. Strong stock plants from 6-inch pots, 50c. each; $5.00 per dozen. Can also furnish strong stock plants, BEST COMMERCIAL VARIETIES, such as:

Dr. Enguehardt,	20c.	Each
Yellow Eaton,	15c.	"
Marie Liger,	15c.	"
Minnie Bailey, Fine Late Pink	15c.	"
J. J. Mitchell, Fine Late White	15c.	"
E. H. Buckbee,	15c.	"
Columbia,	15c.	"

All the above ready for immediate delivery.

ROBERT CRAIG & SON

Market and 49th St., Philadelphia

JOHN BURTON, Assignee

We are now booking orders for

Rooted Carnation Cuttings

Can ship after December 1st, or any time wanted

	Per 100	Per 1000
WHITE		
VESPER	$4.00	$35.00
QUEEN QUEEN LOUISE GOV. WALCOTT BOSTON MARKET	2.00	15.00
PINK		
ENCHANTRESS	4.00	35.00
LAWSON FAIR MAID	2.00	15.00
INDIANAPOLIS	3.00	
CRIMSON		
HARLOWARDEN	2.50	20.00
VARIEGATED		
MRS. PATTEN	3.00	25.00
PROSPERITY	2.00	15.00

Also Grafted Roses on Strong English Manetti Stock

BRIDESMAIDS BRIDES	GOLDEN GATE IVORY CHATENAY	$ 15.00 per 100 120.00 " 1000
UNCLE JOHN LA DETROIT GEN. McARTHUR		$18.00 per 100

STOCK PLANTS OF CHRYSANTHEMUMS

G. S. Kalb	H. Sinclair	Lady Harriott
Alice Byron	Yellow Chadwick	A. J. Balfour
Nellie Pocket	Mabel Morgan	Mrs. Coombes
W. H. Chadwick	Yellow Eaton	Dr. Enguehardt
Timothy Eaton	Amorita	Lavender Queen
Mrs. McArthur	Marion Newall	Brutus
Robt. Halliday		

10 CENTS EACH

S. J. REUTER, Westerly, R. I.

Chrysanthemum

STOCK PLANTS

Early Varieties Now Ready for Shipment. Later Varieties According to Season

WHITE Miss Alice Byron, Wm. H. Duckham, Dr. Enguehard, Miss McArthur, W. H. Chadwick.

25c. each, $2.50 per dozen

PINK A. J. Balfour, Ethelyn, Maud Dean, Mlle. Marie Liger.

YELLOW Yellow Eaton, Mrs. G. F. Baer, H. W. Buckbee.

15c. each, $1.50 per dozen, $10.00 per 100. 50 plants sold at 100 rate

WHITE Geo. S. Kalb, Polly Rose, Willowbrook, Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Mrs. Jerome Jones, Timothy Eaton.

PINK Glory of the Pacific, Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, The Harriott.

YELLOW Monrovia, Miss Georgiana Pitcher, Col. D. Appleton Golden Gate, Major Bonnaffon, Mrs. Trenor L. Park, H. W. Reiman.

RED Cullingfordii. **BRONZE** Kate Broomhead.

10c. each, $1.00 per dozen, $7.50 per 100

We shall have young stock to offer from these and others later in the season.

Grafted Roses, Choice Stock, Ready for Delivering Early in 1905

Carnation Stock, Leading Varieties

SEND FOR PRICE LIST

A. N. PIERSON

CROMWELL - CONNECTICUT

Palmer's

Red Lawson

NOW READY!

SPORT FROM THE FAMOUS MRS. THOMAS LAWSON

Planted May 18th, in full crop middle of August

ROOTED CUTTINGS:

$10.00 per 100
$40.00 per 500
$75.00 per 1000

Ask your *Brother Florist* if he saw it at the Detroit Carnation Show. Ten to one he will say it's a good carnation to grow. **Received CERTIFICATE OF MERIT at Detroit Carnation Show—scoring 87 pts.**

W. J. Palmer & Son

Lancaster, N. Y.

ROOTED CUTTINGS OF

Geraniums & Carnations

SEND FOR LIST

Albert M. Herr, Lancaster, Pa.

FLORISTS' WIRE

STEMMING WIRE CUT 9 OR 12 INCH, OR IN STONES

GALVANIZED WIRE FOR TYING

H. F. Littlefield, Worcester, Mass.

ORCHIDS

We are headquarters for Orchids in the United States. If you want Orchids for pleasure or profit, we respectfully solicit your orders.

Catalogue on Application.

LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

...Fiancee...

Gold Medal Carnation

CHICAGO CARNATION CO.
JOLIET, ILL.



A NEW DEPARTURE in growing

Ornamental

TREES and SHRUBS

Having established an extensive Nursery for the special purpose of supplying Public Parks and Avenues, Cemeteries and Estates with

LARGE AND ESPECIALLY WELL GROWN CONIFERS, RHODODENDRONS, TREES AND SHRUBS

Suitable for immediate effects, which have been so frequently transplanted as to render their further transplanting and future success a practical certainty, we beg to announce that we carry the largest and most complete assortment of the finest formed and best grown specimens in America, which are fully described in the

COTTAGE GARDENS NURSERY BOOK

which is sent free to all who will send us their address.

COTTAGE GARDENS COMPANY, Inc., Queens, New York

THE KING OF ALL CARNATIONS

THE NEW SCARLET SEEDLING ROBERT CRAIG

Robert Craig (Ward)

has been awarded the following honors:

Preliminary Certificate	*American Carnation Society*
Special Diploma	*American Institute of New York*
First Class Certificate of Merit	*Mass. Horticultural Society*
First Class Certificate of Merit	*Penn. Horticultural Society*
First Class Certificate of Merit	*New York Florists' Club*
Craig Cup, for best undisseminated seedling	*Philadelphia*
G. Hartman Kuhn Special Prize, for best undisseminated seedling	*Philadelphia*

The largest, strongest stemmed, most vigorous, healthiest growing, most fragrant, and the best FANCY COMMERCIAL SCARLET CARNATION produced to date. Ranks with Enchantress and Fiancee, having defeated the latter variety in all competitions at Philadelphia.

The Ideal

Christmas Carnation

An Enormous Bloom

Just the color of the Christmas Holly Berry

An Easy Doer — Anybody can Grow It

Having already entered orders for 100,000 cuttings for delivery season of 1906, we are still booking orders subject to buyer's cancellation if dissatisfied with variety at any time up to December 1st, 1905.

PRICES:

$2.50 per doz	$12.00 per 100	$100.00 per 1000
2500 lots . . .	at $95.00 per 1000	
5000 " . . .	90.00 " "	
10,000 " or more .	80.00 " "	

Send your orders early to... **C. W. WARD, *Originator*, Queens, N. Y.**

COTTAGE GARDENS COMPANY, Inc.

HORSESHOE BRAND

RALPH M. WARD & CO.
EXPORTERS AND IMPORTERS
17 BATTERY PLACE
NEW YORK



Bulbs Plants

Valley our Specialty

COLD STORAGE PIPS ALWAYS ON HAND

Place your order now for the GRAND NEW CARNATION

ROBERT CRAIG

To be disseminated in 1906. Also let us figure on your wants for FANCY STANDARD VARIETIES. WE GROW NOTHING BUT THE BEST. Catalogues will be out December 3.

J. D. Thompson Carnation Company
JOLIET, ILLS.

New Daisy Queen Alexandra.

This is a charming form of Chrysanthemum frutescens, and originated in South Africa. It is a novelty of great merit and the anemone-formed blossoms are of the purest white.

Double, semi-double and single flowers appear in profusion on the plant; the majority, however, are double



and semi-double. The three forms are shown in the illustration. Every shoot produces a blossom and in summer outside it makes a bushy specimen very rapidly and is soon covered with hundreds of flowers which last several days when cut. It is being distributed by Sorder & Sons, St. Albans, England.

WATSON'S CLEARING SALE

After the Chrysanthemums are out of the way, fill up with Callas, Gladioli, the Bride, Freesias, etc. See below for some timely bargains.

		Per 100
CALLAS, best California grown, regular	$5.00 size, at	$3.00
" " " " "	9.00 " at	6.00
" " " " "	12.00 " at	9.00
FREESIAS, Bermuda, pure white, 1-2 to 3-4	1.00 " at	.50
" Mammoth French	1.25 "	
PEONIES, officinalis rubra, 2 to 5 eyes,		7.00
" " rosea, " "		9.00
" " alba, " "		14.00
" Festiva maxima " "		35.00
" Chinese, 10 choice named, 2 to 5 eyes,		14.00
OXALIS, Grand Duchess, white,		1.00
" " " rose,		1.00
" " " lavender,		1.00
ALLIUM NEAPOLITANUM		.50
GLADIOLI, "The Bride," (for forcing),		.60

We have also some named Tulips, Lily of the Valley Pips, Spirea, etc. Particulars on application.

GEO. C. WATSON, Juniper and Locust Sts., **PHILA.**

COLD STORAGE

LILY OF THE VALLEY FOR CHRISTMAS FLOWERING

We are now booking orders in advance, and are prepared to ship on the shortest notice, the best grade of **Lily of the Valley Tips** in any quantity from 100 to 100,000 placed in **Cold Storage** last **December**. These will flower in time for the Holidays, if planted three weeks before, when they command novelty prices and are ready sellers, either in pots or as cut flowers.

Savannah, Ga., Oct. 4, 1904.
Messrs. Clucas & Boddington Co.
New York City
Gentlemen:— Please send me by Adams express as soon as you can, one thousand (1000) Cold Storage Valley same as last. The last were very good. * * * You can send the balance of my order, thousand every week, until you have shipped the whole 10,000
Yours truly, JOHN WOLF.

Selected, 3-Year-Old Pips from Cold Storage

Per 100, $2.00; per case (2,500), $30.00; per 1000, $12.50. 250 at 1000 rates

SPECIAL PRICES ON LARGER QUANTITIES

CLUCAS & BODDINGTON CO. 812-814 GREENWICH ST. **N. Y. CITY**

Corner of Jane St. Telephone, 1063 Chelsea

PALISADE NURSERIES, SPARKILL, N. Y.

Importers, Exporters, and Growers of Seeds, Bulbs and Plants

ASPARAGUS PLUMOSUS NANUS

VAUGHANS SEED STORE
CHICAGO NEW YORK

JAPANESE PEAR SEED, CROP 1904

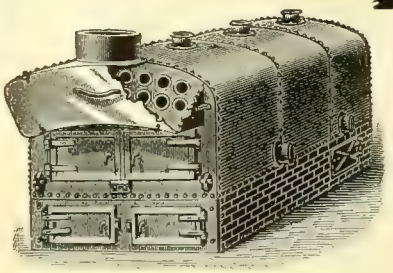
Due in December **$225 per 100 lbs**

Place orders now for Spring delivery nursery stock

SUZUKI & IIDA

31 Barclay Street **New York**

Kroeschell Boiler



We have one of each size on hand at all times for urgent cases : : : :
Can ship immediately on receipt of order

Kroeschell Bros. Co.
47 Erie Street
CHICAGO

Great Fuel Saver

Report on Greenhouse Glass

Owing to a strike which has been going on since last spring in the factories in Belgium, all glass for greenhouse purposes for the present can be obtained from manufacturers in this country only. At the present time prices for American glass of certain kinds are quite low. If the strike abroad should continue for any length of time, the demand for greenhouse sizes on the American manufacturers would be so large in proportion that it would seem likely that they would restrict purchasers either to limited amount of those sizes or obtain much higher prices.

In buying American glass, purchasers should take into consideration that there is a great difference in the quality of glass as manufactured in different factories. The best glass is often the cheapest in the end, as glass having bubbles or strings is not suitable for greenhouse purposes. We should advise buying in American glass only A or second quality, and would recommend obtaining it through dealers who carry only the best Pennsylvania makes. The foreign glass has been used to the greatest extent in this market, and for those who do not intend to use glass until late the coming year, it might be well to wait until it can be determined whether the foreign factories will resume operations or not. If, however, glass will be required in the early spring, it would seem that it might be well to place the order before the demand on the American manufacturer has become too great.

WHEN YOU THINK OF BUILDING AND WANT TO BUY

Greenhouse Material

HOT BED SASH Ventilating Apparatus or Hardware Specialties Write us for Free Estimate and Sketches FREE CATALOGUE

THIS MEANS YOU We want your trade—WRITE US

Foley Manfg. Co. West 22d Street cor. Throop Street Chicago

GLASS Buy Now and Save Money

We have something special on both Hotbed and Greenhouse sizes. Be sure and get our prices before placing your order, either for carload lots or less.

SHARP PARTRIDGE & CO. 22d and Union Place CHICAGO

To Growers

TO-BAK-INE FUMIGATING PAPER

Scarborough, N. Y.

Dear Sir: — We wish to say that your To-Bak-Ine Fumigating Paper is the most satisfactory agent for the destruction of Green Fly that has ever been brought to our notice. It is clean, quickly applied, and effective. As you know, we have been heavy buyers of this product, all of which has been used in our own greenhouses. And as actions speak louder than words, we think no further recommendation on our part is necessary.

F. R. & P. M. PIERSON.

$6.50 per case of

144 Sheets

each 36 inches long

TO-BAK-INE LIQUID

Mt. Clemens, Mich.

Dear Sir: —Having used your To-Bak-Ine products in all its forms, will say that your To-Bak-Ine Liquid is the article for our purpose, as it does its work effectively without injuring the most sensitive blooms, and it is so easily applied. You can book us as regular customers, as we are more than pleased with same.

Yours very truly,

JOHN BREITMEYER'S SONS.

¼-pint can	$ .60
½-pint can	1.10
1-pint can	2.00
1-gallon can	15.00

Send 4c in stamps for a FREE TRIAL SAMPLE of LIQUID sufficient to make 15 gallons of spraying solution, or for one fumigation of 4,000 cu. ft., or two fumigations of 2,000 cu. ft.

TO-BAK-INE FUMIGATING POWDER

Corfu, N. Y.

Dear Sir: — For the past 4 weeks I have used your To-Bak-Ine Fumigating Powder in several carnation and rose houses, fumigating in the carnation houses once a week and in the rose houses twice a week. The quantity used each time was 4 half pounds of the dust equally divided as to distance in a house 125x20, burning it in pie dishes with the bottoms cut out and a piece of mosquito netting in its place, and one end of dish raised 3 inches from ground, which gives sufficient draft for the dust to smolder and burn clean up. It has entirely kept down all signs of Aphis. It leaves no odor on the flowers, and has not in the slightest hurt either flower or foliage on the roses, as does burning tobacco stems.

Very truly yours,

WILLIAM SCOTT.

50 lb. bag	$1.50
100 lb. bag	3.00

FREE

Five pound trial packages of To-Bak-Ine Fumigating Powder for express charges only

TO-BAK-INE PRODUCTS — SAVE STOCK-PROFITS, WORRY, AND DO NO HARM TO YOUR STOCK

Send for "WORDS OF WISDOM," Written by Growers

E. H. HUNT, General Agent 76-78 Wabash Ave. CHICAGO

OR FROM

W. W. RAWSON & CO., 12 Faneuil Hall Sq., Boston, Mass.
N. F. McCARTHY & CO., 84 Hawley St., Boston, Mass.
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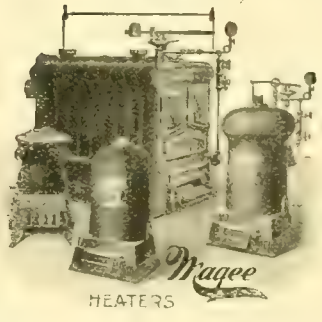
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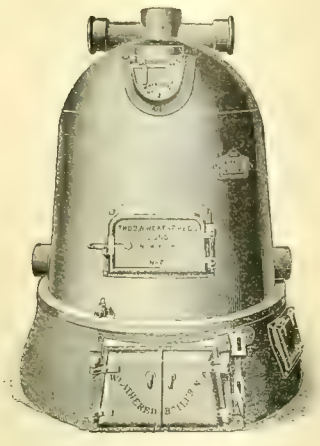
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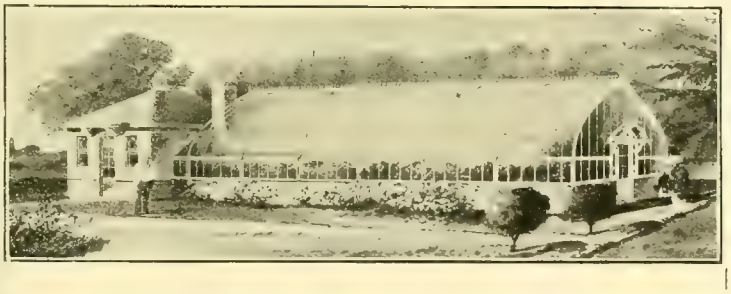
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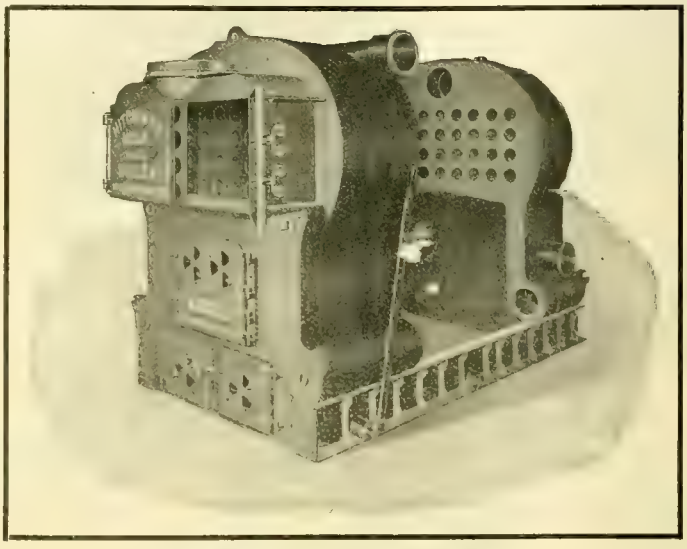
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A FEW USEFUL FERNS FOR EVERYDAY USE



"Which are the best ferns for apartments?" is a question often asked the florist. The unfavorable conditions of a room and unhealthy atmosphere in which they have to grow after leaving the healthy surroundings of a greenhouse, makes it quite hard for these beautiful plants to live. Some are hardier than others and stand longer the dry, dusty air of the rooms, and a great many are grown for that purpose There are lots more that can be used with great advantage for room decoration. Let us look over a few.

The Cyrtomiums are, without exception, some of the best when it is not too hot where they are raised, for they are natives of Japan and stand quite a good deal of frost if necessary, better than too much heat.

Cyrtomium falcatum is known well enough for its durability, and its large, glossy, dark-green fronds. Just as hard and effective is the variety Cyrtomium falcatum pendulum, with narrower pinnæ and of a graceful, pendulous habit which is accentuated in fully developed plants.

Cyrtomium caryotideum (or falcatum caryotideum, to be correct) is different from falcatum in its drooping habit, much larger pinnæ and the dull green color of its fronds.

Cyrtomium Fortuneii (or falcatum Fortuneii) is quite distinct from the others. The fronds are longer in proportion, the plant more leafy and of an upright habit, the color of a dull, dark green and lighter green in the young frond. It makes a well-formed bushy plant.

Cyrtomium atratum (Lastrea atrata or Nephrodium hirtipes) has the fronds arching and the pinnæ narrow and long. The fronds, one to two feet long, tapering at the top, are not unlike a short nephrolepis frond, but of more substantial texture. It is a nicely built fern.

Cyrtomiums have the fruit dots scattered irregularly all over the under part of the top pinnæ of the fertile fronds. They are very easy to grow from spores and need no different treatment from that given any other ordinary ferns. They are of rapid growth, but do not like much heat. They stand the dry, gassy atmosphere of apartments the best and are very attractive when mixed with other fine cut-leaved ferns.

Lastrea erythrosora is a veryeffective Japanese fern. The fronds, two feet long by one wide, of triangular form, are bluntly divided, strong of texture, and most beautiful when the young well-formed fronds, of a bronzy color, are growing out. They turn with

age to a dark, shiny green. This is a rapid grower, makes good plants and is easily raised from spores.

Lastrea prolifica, another Japanese fern much related to the preceding, is of smaller habit, has the divisions of the fronds narrow and spaced, and the fruit dots before maturity are of a red color. It is easily propagated from spores and from leafy buds that grow on the surface of the frond. Both are easily grown, and no special treatment is needed.

Polystichum setaceum, of Japanese origin, will be one of the most popular ferns for decorative purposes. The fronds, over one foot long, are of leathery texture, of a dark shining green color. The leaflets are close together, and bristly. The plant is of a spreading habit and very effective. Easily grown from spores.

Lastrea Standishii (laserpidifolia). Another Japanese fern of luxuriant growth. The fronds are of firm texture and not very numerous, and when full grown are often over two feet long and one and a half in breadth, of broad spire-shaped form. The pinnules being close together and finely cut, give the plant a massive but feathery appearance. The accompanying picture is from young seedling plants. This makes a very elegant plant when grown up as well as when young. It is easily grown from spores.



(To be Continued.)

Pot Grown Carnations

One of the subjects of especial interest to carnation growers at present, is the behavior of certain varieties, under the diverse conditions of "field grown" and "pot grown" culture. By the latter method we mean carrying the young plants along into 3 in. and 4 in. pots, inside or in a cold frame, until the beds or benches can be secured for their final planting, without subjecting them to outside planting whatever.

While, as a general rule, field growing and early benching give good results and is a safe and conservative system to adopt with any variety, it has been proved beyond a doubt that "pot culture" with some varieties will give earlier flowers, longer stems, and equal production of first grade flowers. A great objection to "pot culture," and no doubt one of the reasons that it is not more generally adopted, is that by the time the plants are thoroughly established and ready to bloom, the soil has become impoverished and there is little left in it to produce large flowers and carry the plants along. As a natural consequence, "feeding" must then be resorted to and kept up, and right here is where trouble commences. It is a simple matter to describe any operation in the culture of a plant, or the various methods that may be adopted to gain a certain result, but when it comes to advice on administering "stimulants," we have reached a point where, without a thorough knowledge of the treatment the plants have been receiving, and some knowledge of the traits of the soil in which they are growing, it is sheer guess-work to say what particular "feed" would be suitable. The only method one can pursue and be assured of success, is to confine oneself to the use of ingredients such as well-rotted cow or horse manure, or pulverized sheep manure, and only use concentrated manures in a small way until their effect has been demonstrated.

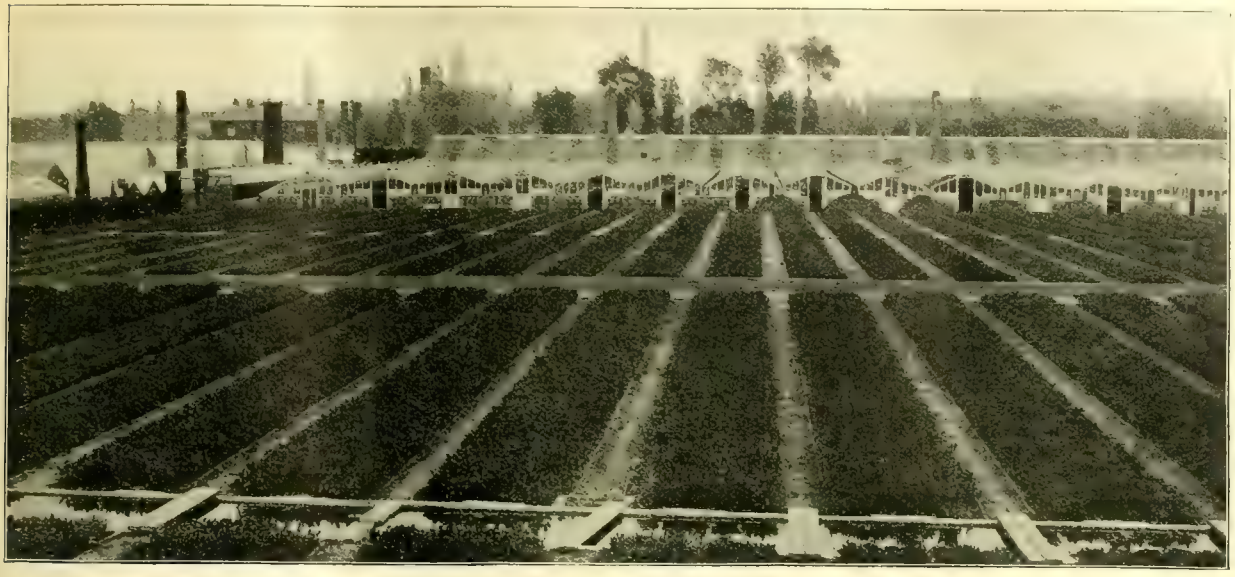
Among the staple varieties that seem to derive the most benefit from "pot culture," are Mrs. Lawson, Enchantress, Queen Louise and Harlowarden. The Queen and Lady Bountiful, especially the former, do not seem to do quite as well. Enchantress is equally good either way, and in fact, in a house of plants under each system no perceptible difference is discernble with the exception that the field-grown plants are throwing hardly any stem cuttings, while the others have from two to four, the length of stem, size of flower, etc., in each being the same. Of the new varieties, viz, Nelson Fisher, Mrs. Patten, Ethel Ward, Octoroon, Judge Hindsdale, Indianapolis, Flamingo, and others it is too early to pass an opinion, for, if it requires three years to test a seedling, it surely will take two years to find out whether a new variety will pay to grow or not, considering the condition in which stock of the majority of new varieties is received. It takes usually one season to get a healthy lot of plants for a fair test, the few scraggy flowers produced during their first season sufficing only to give one an idea of the color, etc. Seldom, indeed, during their first year do they send up a flower at all approaching the glowing descriptions that have heralded their advent, and alas! how many of them after having a "fair show" find their level amongst the "has beens" and "also ran."



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Azalea indica and Houses at Bruges, Belgium

Herewith are seen two views of Sander & Sons' Azalea field in Belgium. There are some 150,000 plants grown, from the small grafted plant to specimens of immense size up to 10 feet in diameter. Here also will be found the largest collection of pyramid azaleas in Europe. Only the finest and most showy kinds are grown. From the open ground all orders are executed in the autumn, and the remainder are planted out in the houses shown in the photographs, where they remain until the spring, when they are again transferred to the beds outside. At the extreme left of the picture there are houses devoted to Kentia culture. The method of watering is entirely by hand, 20 to 30 men doing the work with two cans each, the water being obtained from long tanks similar to the one in the foreground of illustration.

A. Dimmock.



PYRAMID AZALEA INDICA



Isn't My Money as Good as Theirs?

I heard this query put the other day by a wealthy private citizen with a fine country residence, "Isn't my money as good as theirs?" to a firm in the horticultural trade from whom he was trying to buy some stock in quantity. Mr. A. had seen some wholesale catalogue and naturally thought he ought to buy from Messrs. B. at trade rates. Messrs. B. do a wholesale and a retail trade and have a scale of prices for each department. They explained to Mr. A. that the wholesale prices were only for those who bought to sell again, or in other words for those who were "in the trade." But Mr. A. contended that if he bought in equal quantity, he was entitled to just as good prices even if he didn't want to sell again and demanded indignantly, "Isn't my money as good as theirs?" He finally declared that unless he got trade rates he would go to another firm and felt sure he could get there what he wanted. Messrs. B. stood to their guns and lost the customer.

The question arises: did they do right? And did Mr. B. get what he wanted from another firm? I think we may say "yes" to both questions. And here arises a burning point in trade ethics which has been too little discussed in the rush of modern American business. In the Old World it is no new problem. They have gone through it over there and have wrestled with it strenuously for many generations. They even have it now in a mild form, as we can see from their trade papers where soul-piercing wails anent the inroads of the Dutch houses greet us frequently. It seems the Dutch growers go to the trade and sell all they can; then they coolly turn round and sell the customers also, so that the tradesman is left high and dry. A case of getting your pie and your penny too, which may be smart, but which few right-minded people would care to endorse.

On the other side there has grown up a system of trade limitations which has reached just and stable proportions awarding to each a proper share in the profits of production and distribution, and which in course of time has become the unwritten law of business. If any concern oversteps that unwritten law, there is prompt and effective ostracism enforced which soon brings the offending party back into line.

But under the newer conditions, or as we might say the cruder methods under which we push along in this country, there are but few firms that have the courage to stand out for correct business principles in this matter. These firms are, as a rule, the old, well established concerns who have a stable trade. It is to their credit that they practice fair and square methods in both their wholesale and their retail departments and do not mix them up and shuffle both together whenever an extra dollar is to be made regardless of whoever may be hurt. They are doing the honorable thing in thus sticking to correct ethics, and in the long run they come out on top. A proof of the latter assertion is apparent in the fact that these old established firms started in on the fair and square method and stuck to it until they were the only ones left of dozens who started differently at the same time, and who have long since disappeared and left nothing behind them but a bad odor.

I suppose it is only a question of time when we will all come to a realizing sense of what is the best policy in this country as they have found it in the Old World; but in the meantime that good era may be hastened if we thrash the matter out among ourselves and try to come to a clear understanding of the rights and wrongs of it. I should like to hear the opinions of others in the trade on this point.



In planning your advertising for the coming year, remember that HORTICULTURE proposes to work overtime the season through to prove itself the best medium in the country.

DECORATIVE ART



The illustration shows a Japanese basket made of rattan and colored a beautiful shade of brown It was filled with small orange plants (Otaheita Orange) (?), Cypripediums, lilies of the valley, a few Dendrobium Formosum, and several fern plants. I like the shape of the basket, think the light blue ribbon is handled fairly well, and see a value in the imaginary curve starting from the spray on the right of the bow following down to the two oranges on the left, then through the basket and ending with the two lower oranges on the right side of the basket.

H. H. Battles,

Protect the Rhododendrons

Before the frost has had time to penetrate the soil, it will pay a handsome dividend to protect the rhododendrons; especially is this true if newly planted, as these rarely become well established the first summer, though the past one has been specially favorable to them, owing to frequent showers. The past month, however, has been unusually dry in this vicinity, and it has been proven in the past beyond doubt that winter killing is much to be traced to drouth during the months preceding frost; hence it is not wise to put on a covering of dry leaves if the soil is also in a condition bordering on dryness. This protection of leaves is mainly beneficial in enabling the roots to keep active during winter, making good any loss by evaporation by cold, drying winds; but if the soil is dry the roots cannot well perform their allotted part in the economy of the plants.

Spruce branches also are a great protection to the tops of the plants; where available we also place them over the leaves to hold them in place, as well as to hide them in a tidy way where a well kept appearance is an essential. In protecting large rhododendrons by the use of branches, it is very important that they be well supported independently of the plants themselves, or the weight of snow will cause collapse when the covering is most needed.

E. O. Orpet.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

Next Comes Ye Editor

Sincerely grateful are we for the many words of cordial approval with which the first issue of HORTICULTURE has been received. For such excellence as it possesses the preponderance of credit is due to the numerous steadfast friends everywhere who, by word and deed, helped to inspire the confidence and enthusiasm which counts for so much in carrying any new undertaking to a successful consummation.

Prof. W. G. Johnson is being strongly urged for appointment by President Roosevelt to the position of Assistant Secretary of Agriculture, now vacant, and the qualifications of the gentleman for that important office are well set forth by his friends who are laboring zealously for his success. Assuming these qualifications to be as represented, Prof. Johnson's appointment would be distinctly a boon to the horticultural interests of the country, but it is unfortunate that the candidate is not better known by representative horticultural men. In a list of some ten influential organizations with which Prof. Johnson is actively identified, as given in the columns of a contemporary, the name of the Society of American Florists and Ornamental Horticulturists does not appear. Yet this society, as represented by its officers and many prominent members, is doing spirited work in his behalf and, should he succeed, it will be in ome degree due to their help.

It is learned from the news despatches that while a quantity of oak plank was being unloaded at Lubec, Me., from a car recently arrived from Boston, there were discovered a number of brown-tail moth nests among the lumber, and much consternation was caused thereby. Modern modes of travel and transportation make quick work of distribution and the incident at Lubec is liable to duplication at any point on the continent. Brown-tail moths in their hibernating state, and gypsy-moth egg patches, seem proof against any extremes of weather, and the chances of their detection, particularly by people who have had no opportunity to become familiar with their appea - ance, are very slim. Those people in places as yet unvisited by the pests, who have been serenely counting on immunity for many years to come, are perhaps destined to a rude awakening in the near future. It will not be long before other states besides Massachusetts will be clamoring for relief at Washington, and the national government will be forced to some more emphatic action than it has hitherto seemed disposed to take. The evil will soon become a national one.

With the approach of Christmas comes the impulse to voice the oft-repeated warning to the growers raising flowers for the metropolitan wholesale markets, against the pernicious practice of holding back the cut of several days previous to the holiday and overloading the market all at once with the accumulated material. To this cause more than any other may be charged the decadence of the holiday shipping trade in cut flowers. The fictitious values set upon all shipping flowers two or three days in advance of the holiday as a result of the enforced scarcity left no margin of profit for the out-of-town dealer who, handicapped still further by the unfresh condition of much of the stock sent him, could not be blamed if he sought a more remunerative means of supplying his establishment with holiday stock. Under such conditions the grower suffers to a like extent because of the overloaded market on the last day, the loss of so much unsaleable material, and the resultant dispiriting effect on the really fresh stock. Better, far better, forget the fact that a holiday is due and send every bloom to market the moment it is ready. A universal adoption of this course would give the cut-flower trade a new lease of life. Those who follow it consistently and persistently will be the winners in the end.

Insurance people are showing hostility to all interior festoonings of Christmas greens, especially in department stores and such large places. If this should lead to the more general adoption of living plants for holiday decorations, so much the better. The beautiful mountain laurel, which has been all but exterminated in many localities, is entitled to a "close season" for a few years, if this were possible.

"Hipper I." is the name of a new tomato for forcing, offered by an English raiser, said to be remarkable for its fine clusters of fruit, deep crimson color, rich flavor, and ideal as to size (5 or 6 to the pound). It's a tough name. Let's hope the thing itself is better than the name would imply.

"A long pull, a strong pull, and a pull all together," — for advertiser, buyer and us means success for all.

HORTICULTURE is the only paper of its class in America.



First Prize Group of Chrysanthemums in Variety for Effect.
Exhibition of the Missouri Botanical Gardens at the World's Fair Flower Show.

After Ye Adjournment

The single violet seems to gain in popularity.

Chrysanthemum salad to be fashionable? Guess again.

Christmas is not far off. It will soon be in order for the flower grower to be "off crop."

Shake hands with the Poinsettia Man. He's a good fellow to know about now.

Society is getting down to business again. And the florist has his ear close to the receiver.

It is not yet too late to sow cyclamen seed. They will come in all right for Christmas, 1905.

For up to date florists' supplies, honest goods at honest prices, you need not go outside of the firms advertising in these columns.

The manuscript for some of the best notes in last week's great issue of Horticulture were written with S. S. Pennock's invincible, business-getting pencils.

Monday, December 5, was the anniversary of the christening of La Detroit The infant has made good its promise and its sponsors have reason to feel proud of its record up to date.

Begonia Gloire de Lorraine is still the queen of early winter flowering plants. There seems no prospect of a surplus of this charming table plant for many years to come. "You can't have too many of them."

Are you an "out-of-town" florist? Write to some of the wholesale flower dealers whose advertisements you find in this paper and see what inducements they have to offer you in Holiday flowers and greens. They'll treat you all right.

Our pride in our initial number is duly tempered by the disclosure of the expected crop of typographical inaccuracies, some discovered by ourselves and others by the eagle eye of kind friends. In the main they are very harmless, however, and if our readers will mentally substitute "right-holders" for "right holders" on page 18, "3½" for "32" inch in describing Robert Craig Carnation on page 28, and "Sander" for "Sorder" on page 50, we think the balance will have no more serious effect than to necessitate the purchase of a new pair of glasses especially adapted to proof-revision in "The dead of midnight — the noon of thought."

Retail florists are sometimes apt to overlook the benefit they might derive from the dissemination among the customers of a better knowledge of how to care for flowers after receiving them from the florist. Many erroneous ideas are prevalent on this subject and it is reasonable to assume that, if better informed as to how to preserve their flowers for a reasonable time, customers would be inclined to purchase them more liberally.

In this connection we are glad to call attention to a neat little card prepared by D. B. Long, for distribution by retail florists, on which the following good advice is given.

Flowers require fresh air that is moist rather than dry, and free from gases or draught exposures.

Fresh water too is a vital need, and the stems should be treated to such *immediately* on receiving them. The best holders are those which provide water sufficient so the stems can be set in deep, and well submerged. The water should be changed at least daily, and as becomes absorbed more should be added.

The stems of blooms should be recut occasionally, slanting, with a sharp knife, so not to close absorbing stem pores, and dead foliage should be removed.

As a rule, flowers keep best if the blooms or petals are kept dry, but spraying of the foliage is beneficial.

When not in use or display a cool and dark place, or moist also, is favorable for flowers. To help produce such conditions, tissue paper or a light fabric covered over them, and well sprinkled, is effective.

Florists are frequently asked the questions which our Buffalo friend in his never-wearying ambition to provide system in easy doses for his fellow-florists, answers so well on this little card.

ASTERS

The Two New Varieties:

Benthey's White | **Benthey's Pink**

¶These two varieties will produce more first class salable flowers than any aster now in commerce. ¶They are branching varieties, producing flowers from three to five inches in diameter on fine, stiff stems from thirty to forty inches in length, with extra heavy foliage. ¶They are pronounced by both grower and consumer the finest asters ever seen in Chicago, and were the favorite astors in the Chicago and St. Louis markets the past season, and wherever shown they were termed the best ever.

PRICE LIST:

Trade Package, white or pink, $1.00 | **1-4 oz. white or pink, $2.50**
1-2 oz., white or pink, . . 4.50 | **1 oz., " " " 8.00**

For further information write

The Benthey-Coatsworth Co., Wholesale Florists

35 RANDOLPH STREET, CHICAGO, ILL.

What Ye Neighbors Say

"The love of praise, howe'er concealed by art,
Reigns more or less, and glows in every heart."

The best start I ever saw any paper make. — H. F. L.

Paper received and looks tempting. Wish you great success. — D. S. B.

I want to congratulate you on the fine appearance of HORTICULTURE. — S. J. R.

I want to congratulate you on your start. I was surprised and pleased. — H. H. B.

I rather like your title. Hurrah for HORTICULTURE! Long may it wave! — G. W.

Congratulations! Nothing succeeds like success! 56 pp. and 40 of them ads! Bully! — W.

I am much pleased with the general make-up of HORTICULTURE, and its good appearance, and with you at the helm I have no doubt but what you will make a prosperous voyage. I wish you success. Please enter me on your subscription list. — A. M.

I want to congratulate you upon the first issue of HORTICULTURE. I certainly think you deserve a great deal of credit for getting out the first issue in such good shape, and I extend my warmest congratulations, and best wishes for a prosperous future.—S. S. P.

To say that I am pleased with your new paper expresses it but mildly. I am delighted to see so splendid an initial number. Your advertising speaks volumes for the preliminary work you must have put in. May HORTICULTURE prosper is my sincere wish. — W. N. C.

We are in receipt of the first number of HORTICULTURE, and beg to congratulate you upon its splendid appearance, more especially upon the nice line of advertising which it contains. We hope that you will not only carry as much in the future, but that it will increase with each issue. — D. & C. Co.

Your sample copy of HORTICULTURE to hand, and it struck me at once as being a good thing. Find enclosed $1 in payment of one year's subscription. Under so able management, and being issued from the leading horticultural city, should make it a success from the start, and I trust that your venture will prove a highly successful one. — A. E.

The first copy of your new paper, HORTICULTURE, came to hand this morning, and I wish to send you my congratulations on the fine appearance of your paper; from your wide experience of horticulture and intimate relations with the florists and gardeners of the country, we are sure you will make a success of the venture. I wish you every success, and trust the high character of this, your first number, will be continued in those to follow. — P. B.

Central Floral Co., Chicago, have added another show window fronting on Wabash Avenue. This gives an elegant display.

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 W. 28th St., New York
Tel. 2559 Madison Sq.

Carnations
Catalogues Ready
J. D. Thompson Carnation Co.
Joliet, Ill.

BULBS
HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
17 Battery Pl. New York

Beautiful Grounds
An Illustrated Manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc.
A book you will often refer to. Send for it to-day. Free on application.
PETERSON NURSERY
Lincoln and Peterson Aves., Chicago, Ill.

FLORISTS' WIRE
STEMMING WIRE CUT 9 OR 12 INCH, OR IN STONES
GALVANIZED WIRE FOR TYING
H. F. Littlefield, Worcester, Mass

George M. Stumpp

In market at all seasons
AS A BUYER OF

NOVELTIES AND CHOICE PRODUCTIONS IN PLANTS, FLOWERS OR BASKETS

ADDRESS
Fifth Avenue, cor. 58th Street
NEW YORK CITY

Thos. F. Galvin

Boston's Leading Florist

124 TREMONT ST., OPPOSITE PARK ST. CHURCH

CONSERVATORIES, Boylston & Fairfield Sts., Back Bay

Pennock Bros.

Retail Orders Filled and Promptly Delivered

1514 CHESTNUT ST.
Philadelphia, Pa.

DARDS

N. E. cor. 44th St. & Madison Ave.
NEW YORK CITY

Prepared to fill orders from out of town florists for delivery to residence or steamer

Undertaker's Orders Attended to Promptly and in Liberal Manner

ALEX. McCONNELL

546 Fifth Ave., NEW YORK CITY.

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention ∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL.

KLUNDER

HENRY E. KLUNDER

The name that made flowers famous.
Allow me to fill your orders.

STRICTLY UP TO DATE

33 State St., Chicago, Ill.

WRITE OR TELEGRAPH YOUR
RETAIL ORDERS
FOR CHICAGO AND VICINITY TO

CENTRAL FLORAL CO.

105 WABASH AVE., CHICAGO

We execute all our correspondents' orders with greatest care and at lowest rates. Trade courtesies extended.

William Stuart Allen Company

COMMISSION MERCHANTS IN CUT FLOWERS

Orchids at all Seasons

53 West 28th St., New York City

Telephone, 356 Madison Square

Rose Wellesley.



The new seedling rose, Wellesley, was originated in 1900 at the Waban Rose Conservatories, Natick, Mass. It is a clean, healthy grower, free flowering and very vigorous. The flower is medium size, being larger than Mad. Abel Chatenay, which it somewhat resembles in color, although the tints are very much purer. The outside of petals is bright pink, and the reverse, clear silvery pink.

COLD STORAGE

LILY OF THE VALLEY WILL FORCE EASIER and better than the NEWLY IMPORTED STOCK — till the latter has had a thorough freezing. We have both — but recommend the COLD STORAGE VALLEY for forcing for at least a further six weeks.

¶ We are now booking orders in advance, and are prepared to ship on the shortest notice, the best grade of **LILY OF THE VALLEY PIPS**, in any quantity from 100 to 100,000 placed in **Cold Storage last December**. ¶ No special treatment required. The pips will flower naturally in three or four weeks in a temperature of 60 to 65 degrees Fahrenheit. Your propagating bench is just the place for them.

Savannah, Ga., Oct. 4, 1904.
Messrs. Clucas & Boddington Co.
New York City
Gentlemen:— Please send me by Adams express as soon as you can, one thousand (1000) Cold Storage Valley same as last. The last were very good. * * * You can send the balance of my order, thousand every week, until you have shipped the whole 10,000.
Yours truly, JOHN WOLF.

Selected, 3-Year-Old Pips from Cold Storage

Per 100, $2.00; per case (2500), $30.00; per 1000, $12.50. 250 at 1000 rates

SPECIAL PRICES ON LARGER QUANTITIES

CLUCAS & BODDINGTON CO. 812-814 GREENWICH ST. N. Y. CITY
Corner of Jane St. Telephone, 1063 Chelsea
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters, and Growers of Seeds, Bulbs and Plants

Chrysanthemum

STOCK PLANTS
NOW READY

Wm. H. Duckham, Dr. Enguehard,
25c. each, $2.50 per doz.

WHITE Miss Alice Byron, Mrs. McArthur, W. H. Chadwick.

PINK A. J. Balfour, Ethelyn, Maud Dean, Mlle. Marie Liger.

YELLOW Yellow Eaton, Mrs. G. F. Baer, H. W. Buckbee.

15c. each, $1.50 per dozen, $10.00 per 100.
50 plants sold at 100 rate

WHITE Geo. S. Kalb, Polly Rose, Willowbrook, Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Mrs. Jerome Jones, Timothy Eaton.

PINK Glory of the Pacific, Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, The Harriott.

YELLOW Monrovia, Miss Georgiana Pitcher, Col. D. Appleton, Golden Gate, Major Bonnaffon, Mrs. Trenor L. Park, H. W. Reiman.

RED Cullingfordii. **BRONZE** Kate Broomhead.

10c. each, $1.00 per dozen, $7.50 per 100

We shall have young stock to offer from these and others later in the season.

Grafted Roses, Choice Stock, Ready for Delivering Early in 1905

Carnation Stock, Leading Varieties

SEND FOR PRICE LIST

A. N. PIERSON
CROMWELL - CONNECTICUT

LORRAINE BEGONIA
CYCLAMEN
AZALEAS
LILIES
HEATHS
POINSETTIAS
SCOTT FERNS
DRACAENA TERMINALIS

SEND FOR PRICE LIST

THOMAS ROLAND
NAHANT, MASS.

ROOTED CUTTINGS OF
Geraniums & Carnations
SEND FOR LIST
Albert M. Herr, Lancaster, Pa.

ORCHIDS
We are headquarters for Orchids in the United States. If you want Orchids for pleasure or profit, we respectfully solicit your orders.
Catalogue on Application.
LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

ADIANTUM CROWEANUM

THE NEW MAIDENHAIR FERN

Awarded a Gold Medal at the World's Fair, 1904

Send in Orders which will be filled Promptly at the following prices:

Strong 3 inch pot plants	$5.00 per dozen	*25 at hundred rates*
" " " "	35.00 per hundred	*250 at thousand rates*
" " " "	250.00 per thousand	*Booklet on culture with every shipment*

NEW CRIMSON CANNA

Did you see it at St. Louis, the new Crimson Red Canna?

MRS. WM. F. KASTING

Height 3 1-2 feet, most brilliant in color, most prolific of all red cannas. Blooms continuously. Exceptionally fine for conservatory decoration. Awarded on its merits a *GOLD MEDAL* at the World's Fair, 1904. $1.00 each; $9.00 a dozen; $50.00 a hundred, stock limited

THE NEW CARNATIONS

FIANCEE. Best of all pinks
THE CARDINAL. A fine scarlet
FRED BURKI. The well known white
GIBSON BEAUTY and ROBERT CRAIG. Well known to the trade

To be sent out at the following prices, early in 1905

$12.00 a hundred; $100.00 a thousand. 25 at hundred rates; 250 at thousand rates.

PALMER'S RED LAWSON

Introduced by Mr. W. J. PALMER. (The Lawson blood in carnations needs no introduction)

$10.00 a hundred; $40.00 for five hundred; $75.00 a thousand. Ready now

Christmas Goods, such as Holly, Ground Pine, Laurel Roping and all Kinds of Green Goods. Prices on Application

Manufacturer and dealer in FLORISTS' SUPPLIES AND WIRE DESIGNS. Flowers handled on commission

WM. F. KASTING, Wholesale Florist, 383-385 Ellicott St. BUFFALO, N.Y.

GEO. A. SUTHERLAND
Pres. and Mgr.

JAS. F. BURKE
Treasurer

GEORGE A. SUTHERLAND CO.

WHOLESALE FLORISTS

Cut Flowers
Floral Letters

Florists' Supplies
Wire Designs

SPLENDID HOLLY

The celebrated XXX Brand

HOLLY AND EVERGREEN WREATHS, LAUREL WREATHING AND ALL KINDS OF CHRISTMAS GREENS

selected especially for the New England trade

ALL READY TO QUOTE FAVORABLE PRICES

GEORGE A. SUTHERLAND CO.

34 HAWLEY STREET, TELEPHONE, 1270 MAIN BOSTON, MASS.

The usual abundance

of Good Flowers

ALL VARIETIES WILL BE IN STOCK

For Christmas

and may be had at market prices by ordering from

JOHN I. RAYNOR

49 WEST 28TH STREET, NEW YORK

Write early for prices on regular and fancy varieties of Roses and Carnations, Violets, Lily of the Valley, Lilies, Narcissi and Roman Hyacinths

The ENTIRE STOCK of many of the largest and best growers is handled here

TELEPHONE, 1998 MADISON SQUARE

Geo. Saltford
WHOLESALE FLORIST
46 WEST 29th ST., - NEW YORK
Telephone 3393 Madison Sq.
Consignments Solicited

Chas. Smith
Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand.

FRANK MILLANG
at the
Flower Growers' Market
55-57 W. 26th Street
NEW YORK
Telephone, 299 Madison Square
Open 6 A. M.

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies
Renowned Cottage Garden Carnations

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone : 902 Madison Sq.

Violet and Carnation Growers
Will find a reliable market with
W. H. CUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

The Only Wholesale Plant House in New York City
Saves Time Saves Money Saves Trouble
CHARLES MILLANG
50 West 29th Street New York City
TELEPHONES, 3860-3861 MADISON SQ.

MOORE, HENTZ & NASH
WHOLESALE COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

THE ABOVE ARE ALL GOOD N. Y. WHOLESALE HOUSES

Flower Market Reports

Notes on the Boston Wholesale Cut Flower Trade

There is but little change in values from those reported in our issue of last week. The most favorable symptom is a considerable falling off in the receipts of white carnations which had been coming in excess of the demand, and of all other varieties, so that now the balance is much better maintained. At the same time there is an abundance, and with the moderate weather prevailing at the time of going to press there is no indication of any stiffening up that would cause stringency. A very fine type of American Beauty rose is available at present, and Queen of Edgely is also coming in in elegant form but limited as to number. It is noted that the demand for the latter is much more steady than heretofore. There is a daily call for it from some of the best retail dealers in Boston, and it has apparently found a permanent place for itself amongst the standard varieties for the coming season. As to Bride and Bridesmaid all that can be said is, that the quality seems to improve each week as winter approaches. The quantity coming in is somewhat diminished as compared with the receipts of a week ago, but this is attributed to natural causes only, and is not regarded as an evidence of any attempt at storing as yet. Very fine Liberty roses are being received, but not in any quantity. Chatenay begins to make a little impression, but is not yet sufficiently well known to the public to count for much as a staple variety. The new rose, Wellesley, is making rapid headway because of its unrivalled color and persistent qualities. Combined with the soft green of the coarser growing Adiantum it is exceedingly effective, and critical buyers seem to realize it.

Violets and lily of the valley are in fair supply and demand. Paper white narcissus goes slow, so do Roman hyacinths. Smilax is plentiful. It is worthy of record that at last Boston seems to have developed a demand approaching regularity for orchids. This market is supplied only in a limited degree and receipts are intermittent, but the tendency is toward greater regularity in demand and in the supply. Christmas evergreens are beginning to assert themselves and there is evidence of the usual activity ahead, but the demand is not yet sufficiently defined to indicate more than a fair promise for a good general trade in this class of material. Late rumors regarding the scarcity of holly are confirmed from Southern sources, but dealers are sceptical because of past experiences in this line.

Boston Wholesale Prices to Dealers in Hundred Lots.

As reported Thursday, December 8, 1904.

American Beauty and Queen of Edgely, best, $30 to $50; medium, $12 to $25; low grades, $3 to $8; Bride and Bridesmaid, best, $10 to $12.50; medium, $6 to $8; culls, $1 to $3; Liberty, special, $12 to $15; ordinary, $6 to $8. Violets, $.60 to $1. Lily of the valley, $3 to $5; Carnations, fancy, $3 to $4; ordinary, $1.50 to $2. Roman hyacinths and Paper Whites, $1 to $2. Cypripediums, $12.50. Cattleyas, $40 to $50. Smilax, $8 to $12. Adiantum, $.75 to $1. Asparagus, $35 to $50.

New York Wholesale Market Report

Dark days have made a marked difference in the supply of roses and carnations with an increased call for finer grades. Prices have advanced materially and the general market has taken on a better tone. There are fewer of the fancy and special grade teas than the shorter sizes; the best find readiest sale. There are more Beauties coming into the market than teas, but these also are moving at satisfactory figures. Of the Carnations, Enchantress, some of the fine reds and good white command top prices. (If the present conditions hold for a while, there ought to be no inducement for growers to hold stock for Christmas.)

Violets move slowly. Chrysanthemums are no longer a factor, the quality growing rapidly poorer. The market is supplied with a good assortment of such flowers as bouvardia, red, white and pink, which sells well, mignonette, forget-me-not and stevia. Orchids are in limited supply and command good prices. Of the green goods, asparagus plumosus and Sprengeri sell best. Smilax is very abundant and cheap.

New York Wholesale Prices to Dealers, in 100 lots

Reported up to Thursday, Dec. 8

American Beauty, special, $35 to $40; fancy, $20 to $25; extra, $15 to $20; No. 1, $10 to $15; No. 2, $4 to $8; No 3, $2 to $3; Liberty, special, $15 to $20; fancy, $10 to $12; extra, $8 to $10; No. 1, $5 to $6; No. 2, $3 to $4; Bride, Bridesmaid, etc., special, $10 to $15; fancy, $8 to $10; extra, $5 to $8; No 1, $4 to $5; No. 2, $2 to $3; No. 3, $2. Carnations, novelties, $5 to $8; Enchantress, $3 to $6; Lawson, $2 to $4; standard varieties, $2 to $4; inferior and ordinary, $1.50 to $2. Violets, single, $.75 to $1 25, double special, $.75 to $1.50; ordinary, $.35 to $.75. Lilies, $8 to $15. Narcis., $1.50 to $2. Roman Hyacinths, $1 to $2. Ferns, $.50 to $1.50. Asparagus, strings, $25 to $50; bunches, $20 to $35. Smilax, $8 to $12.

St. Louis Wholesale Market.

The report from St. Louis this week indicates a fairly good demand and the general run of stock satisfactory. American Beauty roses of the higher grades are quoted at $25 to $33; medium, $12 to $20; culls, $5 to $10. Bride and Bridesmaid, $3 to $6; Liberty, best, $6 to $8; ordinary, $3 to $5; Perle, Golden Gate and Ivory, $3 to $6. Carnations, Lawson and Enchantress, $4 to $6; Estelle, White Cloud, Hill, Joost, Nelson, $2 to $4, according to quality. Violets, single, $.50 to $1; double, $1 to $1.50; special, $2. Lilies, $10 to $15. Narcissi, $3 to $4. Roman hyacinths and lily of the valley, $2 to $4. Smilax, $12.50 to $15. Asparagus Sprengeri, $1 to $3.

Obituary.

Mrs. Mahala Joyce who, until a few years ago, was a constant attendant and enthusiastic exhibitor at all the shows of the Massachusetts Horticultural Society, died at her home in Medford on November 11, at the advanced age of 91 years.

Mrs. Joyce was descended five generations from a Mayflower ancestor.



MRS MAHALA JOYCE

Her husband was a famous shipbuilder She was attached to the old ways, refusing to ride in electric cars or recognize other "new fangled" inventions. She retained her faculties up to the sudden illness which caused her death.

Mrs. Joyce's home was long a treasure house of Colonial relics, one of the most prized being a clock more than 200 years old, which was once the property of Governor Gamaliel Bradford.

Louis Unverzagt died November 23d at his home in Springfield, Ill., aged 58 years. He was a man highly respected by a host of friends who were endeared to him by his integrity and manly traits.

We Have
...HOLLY...
The RIGHT KIND
at the RIGHT PRICE
and delivered at
the RIGHT TIME

EXCLUSIVE NEW ENGLAND AGENTS FOR SOUTHERN BOXWOOD SPRAYS

Christmas Greens in Abundance
WELCH BROS.
15 Province St. :: BOSTON



THE
Perfect Flower Pot
Handle and Hanger

Is used for lifting plants out of jardiniers, also for hanging up plants for decorations on walls, etc. Will sustain a weight of 100 lbs.

No. 1 will fit from 2 to 5-in. pots, per doz. 30c; No. 2 will fit from 5 to 8-in. pots per doz. 40c; No. 3 will fit from 8 to 12-in. pots, per doz. 50c. Postage 10 cts. ex. per doz; sample pair, 10c. postpaid.

FOR SALE BY ALL
FLORISTS' SUPPLY DEALERS
W. C. KRICK, 1164-66 Greene Ave.
BROOKLYN, N. Y.

ESTABLISHED 1887

TELEPHONE 167 Madison Sq.

Always Trustworthy and Reliable for FLOWERS CONSIGNED or ORDERS GIVEN.

J.K.ALLEN

106 W. 28th St.
New York City

Open at 6 o'clock every morning with a full assortment of cut flowers for all purposes. Stock shipped promptly for

EARLY OR LATE ORDERS

Roses, Carnations, Violets, Chrysanthemums, Orchids, Bulb flowers, Greens of all kinds.

WRITE FOR HOLIDAY PRICES NOW

Stock Plants. New Pompon Chrysanthemum

"BABY"

The smallest and prettiest of all the pompons. Color, clear, rich yellow; form, very symmetrical. It has been the best selling plant we have had this season, a house full, 150 feet long, being entirely sold in one week. Strong stock plants from 6-inch pots, 50c. each; $5.00 per dozen. Can also furnish strong stock plants, BEST COMMERCIAL VARIETIES, such as:

Dr. Enguehardt,	20c.	Each
Yellow Eaton,	15c.	"
Marie Liger,	15c.	"
Minnie Bailey, Fine Late Pink	15c.	"
J. J. Mitchell, Fine Late White	15c.	"
E. H. Buckbee,	15c.	"
Columbia,	15c.	"

All the above ready for immediate delivery.

ROBERT CRAIG & SON

Market and 49th St., Philadelphia

JOHN BURTON, Assignee

For Xmas.

Erica Fragrans, $1.50, 2.00

Azaleas, Pink, White and Red, $1.00, 1.25, 1.50

Cyclamen, 50c., 75c., $1.00

Daisies, = = = $1.50, 2.00

Jerusalem Cherries, $4.00, 5.00, 6.00 per doz.

Dracaena Terminalis, 75c., $1.00, 1.25, 1.50

Anton Schultheis
College Point, L. I., N. Y.

R. C. HAYDEN, Secretary and Treasurer WILLIAM J. MUTH, Manager

THE PHILADELPHIA CUT FLOWER CO.

Wholesale Commission Merchants

High Grade Seasonable Cut Flowers

OUR SELECTED SPECIALTIES:

BEAUTYS, BRIDES and MAIDS; FANCY ENCHANTRESS, LAWSON, PROSPERITY, ETC.

A TRIAL ORDER IS REQUESTED

1516-1518 SANSOM STREET . . . . PHILADELPHIA, PA.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

YOUNG & NUGENT

42 West 28th Street

Telephone, 2065 Madison Sq.

WHOLESALE FLORISTS

CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Out of the Ginger Jar

By GEO. C. WATSON

"I'm monarch of all I survey,
My right there is none to dispute,
From the mountain all round to the sea,
I'm lord of the fowl and the brute."

According to the poet, that was what Robinson Crusoe sang on the proud eminence of his island hilltop, his chest swelling, his proud eyes flashing, his right foot extended, while he gave an added cock to his bonnet that might have been envied by the proudest follower of Bonnie Dundee.

I can imagine the same attitude in the Great P. Welch of Boston, as he dictates his advertisements for HORTICULTURE, telling the trade of the country in vigorous yet graceful Bostonese, "We are the largest handlers of cut flowers in the United States," with the emphasis on the WE. Bravo, P! I can hear the stamp of your foot as you pronounce that WE and then pause; and I can imagine how even your impassive stenographer warms up and puts a little of your enthusiasm into Isaac Pitman's curlycues. It's a curious thing how the good men get on top of the heap like the good roses on top of the box.

Here in Philadelphia our cut flower distributors are very modest; but there are a few symptoms lately apparent which lead to the belief that some of them are beginning to dream of becoming world powers on a par with our Boston Napoleon. For instance, there's Sam Pennock calling himself "The wholesale florist of Philadelphia," with the emphasis on the THE, so that all may know where HE stands; and his near neighbor, Baker, calling himself "the oldest wholesale florist of Philadelphia," with the emphasis on the THE, and D'Artagnan defiance in every letter. Looming large and deliberate between these two champions is Edward Reid, who at present contents himself with being merely GOOD — "good stock, good packing, good treatment." But we can imagine how that good will grow when the Leo Niessen Company uses BETTER and the Cut Flower Company uses BEST. Edward will progress to VERY BEST, and the next one will have to cap the climax with SUPERIOR TO THE VERY BEST, and by that time we will doubtless all have arrived at the pinnacle of P. — well drilled and dauntless Crusoes in the crusade of distribution.

What does Wm. F. Kasting, the hustling Buffalonian, mean by "Green Goods"?

He says "all kinds." Does he include the Irish variety, the counterfeit stuff, the rural youngling, and the creme de menthe? Does he have green kail, green peas, scullions and all the proper ingredients that go to the making of good cock-a-leekie? Does he have the Nebuchadnezzar Breakfast Food — that mighty green so appreciated by Dean Swift, rhapsodized over by Walt Whitman, and apostrophied by John James Ingalls? If he has all these, and all the others people might think of, what a World's Fair Ellicott street must be at present!

I can imagine the looks of distress on the faces of such keen investigators into the new and strange in natural phenomena as John Raynor, John Young, Frank Trændly, Walter Sheridan, *et al.* when they realize that they are far too rushed in distributing the immense floral product of New York and are utterly unable at present to visit Buffalo and absorb these wonders which to the unprejudiced will appeal as being far more wonderful than Niagara Falls. Some may doubt if anything could be more wonderful than Niagara Falls. It all depends on the point of view. Doubtless many of you remember the story about the visitor from the Land o' Cakes. A kindly native had led him up to the brink of the great natural wonder. The visitor gazed and gazed, and better gazed. But he said never a word. Occasionally he would wag his head from side to side; sometimes he would nod his head up and down. Finally he turned and began walking away. The native expected to have heard the usual exclamations — the Mys and the Ohs and the Wonderfuls — and none being forthcoming, he ventured to ask:

"Well, what do you think of it?"

"Oh, it's nothing very wonderful."

"What's that? Do you mean to tell me you ever saw anything more wonderful than Niagara Falls?"

"Aye, man; I have so. I have seen a thing a sight more wonderful than that. Over in Hawick, where I come from, they have a hen with a wooden leg, and to my mind that's a great deal more astonishing than Niagara Falls."

I was going to say let us hope that Mr. Kasting will not add the green-eyed monster to his verdant assortment, but that is unnecessary, as W. F. is far too jolly and good natured ever to be jealous of anybody. May his tribe increase!

FRED EHRET WHOLESALE FLORIST

Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.

CHRYSANTHEMUMS until Christmas, including Dorothy Faust, Fancy White.

1403-5 Fairmount Ave., PHILADELPHIA.

Established 1890

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EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

To Out of Town Buyers

When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try

...BAKER...

THE Oldest Wholesale Florist in Philadelphia

Address: 1432 SO. PENN SQUARE

BERGER BROTHERS Roses, Carnations

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

SPECIAL OFFER

JAPAN LONGIFLORUM LILIES

7–9 inch Bulbs

300 to the case at $3 per 100, $27 Per 1000.

SCHLEGEL & FOTTLER CO.

26 & 27 So. Market St. Boston, Mass.

Schlegel & Fottler Company announce that they have secured the entire building at 26 and 27 South Market St., Boston, a part of which they have occupied for many years, and in future their principal salesroom will be on THE STREET FLOOR.

WM. HAGEMANN & CO.

WHOLESALE IMPORTERS OF GERMAN LILY OF THE VALLEY

55 Dey Street - New York

You will

DOWN THE OTHER FELLOW

if you grow this, the finest strain of STOCKS on the market. The largest spikes, largest flowers, and by far the greatest per cent double; in 3 colors only. WHITE, LIGHT BLUE and BLUSH PINK, 50c. per trade pkt. For a limited time I will send 3 PKTS. ANY COLOR, FOR $1.00.

Do you want the best VERBENAS you ever grew? SEND 20c. for a trade pkt. to try.

TAPPAN, TAPPAN STREET MANCHESTER, MASS.

NOW READY!

Sweeping Prize Stock

at the Chrysanthemum Shows of 1904

100 American Prize Winners, Mixed or Named

	EACH
6 in. pots	$ .50
7 in. pots	.75
8 in. pots	1.00
10 in. pots	2.00
Plants dug from beds,	.25

NOTICE

Growers, change your stock to be successful in 1905

BEACH, THE FLORIST

The Home of Chrysanthemums ***Bridgeport, Conn.***

Buffalo Wholesale Flower Market Report

Flowers in abundance for all calls. Business somewhat quiet. Beauty roses are selling very slow, but good Bride, Bridesmaid and Liberty go fairly well, as do also good carnations. The violet trade is very dull. Narcissi, Roman hyacinths and smilax are very plentiful.

Buffalo Wholesale Cut Flower Prices

Reported for Tuesday, Dec. 6.

Beauty, extra, fancy and special, $25, $33, and $40; Nos. 1 and 2, $5 to $15; Liberty, extra, fancy and special, $10 and $12; No. 1, $6 to $8; Culls, $3 to $5; Bride and Bridesmaid, extra, fancy and special, $8 to $10; Nos 1 and 2, $2 to $7; other varieties, $3 to $10. Carnations, Lawson and Enchantress, $3 to $5; Prosperity, $4 to $6; white and colored, $2 to $3. Violets, $ 75 to $1 50. Lilies, $15. Narcis., $2 to $4. Roman Hyacinths, $2 to $4. Adiantum Crowianum, $15 Asparagus, $40 to $50 Smilax, $12 50 to $15.

Baltimore Wholesale Market

Recent society events have made heavy drafts on the supply of choice material at times, but generally speaking, there is stock enough to fill ordinary demands. The quality of roses is tending downward, many being short and weak stemmed.

Baltimore Price as Quoted to Dealers in Lots of 100

Week ending Dec. 7, 1904

American Beauty, best, $25; medium, $15; ordinary, 8. Bride and Maid, $4 to $8. Golden Gate and Ivory, $4 to $8; Perle, $3 to $6; Gontier, $3. Carnations, $1.50 to $3. Violets, single, $.75 to $1; double, $.50 to $.75. Lilies, $6 to $10. Narcissi, $2.50 to $3. Roman Hyacinths, $2 to $3. Asparagus, $25 to $50. Smilax, $15 to $25.

News Gleanings from Everywhere

BATTLE CREEK, MICH. — The Warburton Greenhouses were destroyed by fire on the night of November 27. Loss about $2000.

SOUTH FRAMINGHAM, MASS. — The Woodward farm and greenhouse property has been sold to a Chicago purchaser.

The December meeting of the New York Horticultural Society takes place on Wednesday the 14th at the American Institute Rooms, and will be devoted to a discussion of the recent progress that has been made in adding to the fertility of the soil by inoculation with bacteria. Dr. George T. Moore of the Department of Agriculture, will be the chief speaker. He has given much attention to this subject from the practical standpoint, and will tell about the actual results under cultivation. There may be great possibilities in the practice to progressive growers, even under greenhouse culture. Prof. W. G. Johnson, of the American Agriculturist, is also expected to speak on the results as he has seen them in the farms of the country. The usual council dinner will take place at six o'clock that same day. The meeting is called at eight o'clock.

Greenhouses Building or Projected

WINCHESTER, MASS. — Frank Gustin, four houses.

CUMMINGSVILLE, MASS. — John Cummings, cucumber house, 30×150.

NEWTON HIGHLANDS, MASS. — A. H. Fewkes, one house.

DARIEN, N. Y. — Harmon & Barr, one house.

CARLISLE, PA.—Carlisle Indian school, one house.

ROCKFORD, ILL. — F. J. Johnston, one house.

BRIDGEWATER, MASS.— L. C. Stearns, one house.

ASBURY, PARK, N. J. — City Greenhouses 70 feet long.

WASHINGTON, D. C.— Executive mansion, four houses, each 20 × 170.

W. GREENVILLE, N. C. — Riverside Nurseries, greenhouse and office.

By Hitchings & Co.

BROOKLINE, MASS. — J. H. Gibbs, conservatory. C. R. Talbot, greenhouse.

CONCORD, MASS. — G. St. L. Abbott, greenhouse.

DANVERS, MASS. — E. H. Reed, vegetable house, 20×100.

LENOX, MASS.— J. H. Schenck, greenhouse.

NEWPORT, R. I. — R. L. Beekman, fern house and work-room. De Lancy George S. Scott, greenhouse and work-room.

NEWTON, MASS. — F. A. Day, pit-house, 20×55.

MT. KISCO, N. Y. — Moses Taylor, palm house.

DREER'S DOUBLE PETUNIAS

Have long been known for superior quality; this year's stock is no exception, and we now have a large supply in strong 2 1-4 inch pots, plants which if potted up now will quickly furnish quantities of cuttings. These we offer in fifteen distinct varieties for immediate delivery at 60 cents per dozen; $4.00 per 100; $37.50 per 1000.

SEEDS. — Saved at Riverton, the finest in existence. DOUBLE FRINGED, 75 cts. per 500 seeds; $1.50 per 1000 seeds. SINGLE FRINGED, 50cts. per pkg.

HARDY PLANTS FOR FORCING

We are carrying a large stock of the following, a specially selected grade for forcing:

AZALEA MOLLIS

For early and late forcing Azalea Mollis is rapidly gaining favor, easily forced at a minimum cost for heat and labor. They are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, $4.50 per doz.; $35.00 per 100.

DEUTZIAS FOR FORCING

Strong two-year-old, field-grown plants suitable for 6-inch pots.

	Per doz.	Per 100
Gracilis Rosea	$1.00	$8.00
GracilLis Lemoinei	1.00	8.00

FORCING LILACS

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, $6.00 per dozen: $45.00 per 100.

RHODODENDRONS FOR FORCING

These are being used more extensively every season, and this year with Easter at such a very late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy, well shaped plants 16 to 18 inches high, covered with buds, $9.00 per dozen; $70.00 per 100. Larger plants 20 to 24 inches high, fine specimens, $11.00 per dozen; $90.00 per 100.

NOTE. The prices given above are strictly for the trade, and retail consumers will not be supplied at these prices.

HENRY A. DREER, Phila., Pa.



Christmas Plants

There was no essayist at the meeting of the Philadelphia Florists' Club on the 6th inst., but Christmas plants was the topic set down for discussion.

Edwin Lonsdale thought we were all familiar enough with the regular supplies for the Christmas season, and that what we were looking for was new things. He was of the opinion that one of the most promising subjects was the new Baby Rambler Rose (Mme. Levavaseur). Its fine bright color and freedom of bloom, its good habit and ease of culture rendered it one of the daintiest little pot plants that could be imagined for the Christmas trade if well done.

E. G. Hill concurred in this view and said he considered the Baby Rambler a good thing, although he was sorry the name was not better. Baby Rambler did not sound right to him somehow, and the French name was also unlikely, as most of us objected to twisting our mouths over Mme. Levavaseur. (One aspiring member tried it later, and it sounded like Levavaseur.)

Robert Craig mentioned some promising new begonias he had seen in his recent travels, and was especially struck with the new white Lorraine he had seen at Dreer's, it being in his opinion far superior to the first white Lorraine introduced, and a charming thing for Christmas. H. H. Battles said he also had seen this new white begonia and could indorse the previous speaker's remarks. He could not agree with the oft repeated remark that scarlet was the only Christmas color. White and pink were all right if given a touch of red in the shape of ribbon with a pot plant, or holly and mistletoe in the case of baskets, etc. But he would draw the line at yellow, and admit that was not a Christmas color. He had an idea that the fuchsia would make a fine subject for Christmas, if it could be done well for that season. Mr. Lonsdale doubted if any of the fuchsias could be grown well for Christmas. The only one he could think of as being likely was F. coccinea.

BUFFALO, N. Y. — Prof. J. F. Cowell has returned from an eastern trip, bringing about two hundred new species of new plant life for the botanical garden at South Park.

Business Changes and New Establishments

PITTSFIELD, MASS. — R. Grigg & Son have sold out their business and retired.

The Cambridge (Mass.) Botanical Supply Co. has been incorporated, with headquarters at Belmont.

JAMAICA, N. Y. — A greenhouse owned by William Grimm was destroyed by fire on November 28th.

SPRINGFIELD, N. J. — Henshaw Bros. have been incorporated with a capital of $100,000. The list of incorporators is given as William Henshaw, Archibald N. Henshaw, and Minnie Henshaw.

MANCHESTER, MASS. — The green house business formerly conducted by J. S. Tappan has been sold to Mrs. W. S. Fitz., who will move the buildings to her estate and establish the greenhouses for private use.

Grand Rapids Florists' Association has been organized to sell the cut of members at the Growers' Market in Chicago. Officers are C. R. Hills, pres.; G. F. Crabb, vice-pres.; Mr. Stover, sec'y; H. Smith, treas., all of Grand Rapids.

GLASS

Buy Now and Save Money

We have something special on both Hotbed and Greenhouse sizes. Be sure and get our prices before placing your order, either for carload lots or less.

SHARP, PARTRIDGE & CO. 22d and Union Place **CHICAGO**

FOR CHRISTMAS

ALL POPULAR ROSES AND CARNATIONS

RHINEBECK . . VIOLETS . . THE CREAM

Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens

ALL SELECT STOCK

WM. GHORMLEY, 57 West 28th St., NEW YORK

POINSETTIAS

$12.50, $25.00 and $40.00 per 100

We Control

the entire product of the Thornhedge establishment on this item, amounting to over

8000 Blooms

Order early to prevent disappointment.

SAMUEL S. PENNOCK

The Wholesale Florist of Philadelphia

Our Flowers

ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. Splendid stock is now coming in and the holiday crop will be JUST RIGHT. We are prepared to furnish what you require, all GOOD MATERIAL and REASONABLE PRICES. But don't put it off until the last. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 28th Street, New York City

Telephones, 798-799 Madison Square

EDW. C. HORAN

Wholesale Florist

55 W. 28th St.
NEW YORK

TEL. 1462 1463 MADISON SQUARE

Ford Bros.

111 West 30th Street, New York

Buyers can now place their orders for shipments of Holiday Flowers. We are the leading dealers in

Up-Hudson Violets and Fancy Carnations

A full line of all other CUT FLOWERS.

Telephone, 3870 or 3871 Madison Square

Lilies Plants and Cut Blooms

Of Highest Grade at ALL SEASONS
Japanese Miniature Plants for
THE HOLIDAYS

Hinode Florist Co.

5th Street, Woodside, N. Y.

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for and get results beyond your expectation.



New Crop Flower Seeds Just Received

Asparagus Plumosus Nanus
Per 100 Seeds, 90c.; $7.00 per 1000 Seeds

Salvia-Bonfire (Clara Bedman)
Per Trade Pkt. 40c.; $2.50 per Oz.

Verbena, Michell's Mammoth Fancy
Blue, Pink, Scarlet, Striped White, and all colors mixed
Per Trade Pkt. 30c.; $1.50 per Oz.

Our Wholesale Price-List of Flower Seeds now ready

Henry F. Michell Co., 1018 Market Street Philadelphia, Pa.

A BEAUTIFUL DECORATIVE EVERGREEN FOR XMAS!
A single postal request will bring you gratis a sample and price.
Pittsburg Cut Flower Co., Ltd., 504 Liberty Ave., PITTSBURG, Pa.
PITTSBURG'S OLDEST WHOLESALE FLORISTS

J. A. Budlong 37-39 Randolph Street, CHICAGO
Roses and Carnations a Specialty
WHOLESALE GROWER OF CUT FLOWERS

Mention HORTICULTURE when you write

Philadelphia Wholesale Markets

Reports from Reid show American Beauty roses to have been in supply about equal to the demand until the end of last week, when a sharp advance was experienced owing to the demands caused by the launching of a new cruiser and a big event at Baltimore. Bride and Maid of best quality in good demand, but inferior grades going very slow. Carnations moving well in the better grades. Poor stock lagging. Violets: New York M. Louise going at remunerative prices. Chrysanthemums still represented by some very good Eaton and Mrs. Jerome Jones. In the bulbous line, Roman Hyacinths are in fair supply and demand and Paper Whites move very slowly. Green material is in good demand at about normal prices.

Pennock's report shows a good out-of-town demand for American Beauty and improving prices for Bride and others. Of Liberty the supply has increased considerably, prices remaining stationary. Kaiserin is on the down grade, being outsold by Bride. Carnations are going pretty well and quality improving. Hinsdale and Patten from the Strafford Farm are very fine. A few chrysanthemums are still coming in, Bonaffon, Chadwick and Faust mainly, the latter very good. Prices satisfactory. Very few cattleyas are being received, but dendrobiums, cypripediums and vandas are plentiful. Paper White narcissi move a little better than last week, but are still laggy. Some excellent Roman Hyacinths are coming in and moving satisfactorily at normal prices. The prospects are for a fine supply of poinsettias and a good demand. The Battles product, which Mr. Pennock handles, will amount to 7,000 or 8,000 blooms. Holly is reported as fair in foliage but not extra as to berries. Mistletoe plentiful, but no material demand yet.

Philadelphia Wholesale Cut Flowers. Quotations to Dealers in 100 Lots
For week ending Tuesday, Dec. 6.

Beauty, extra to special, $25 to $40; Nos. 1, 2, 3, $8 to $20; Liberty, best, $20 to $25; medium, $15 to $18; inferior, $2 to $10; Golden Gate, $8 to $12. Carnations, Enchantress, $3 to $5; Lawson, $3 to $4; novelties, $4 to $6; standard varieties, $3 to $4. Violets, single, $.50 to $.75; double, $.75 to $1.50. Lilies, $12.50 to $15. Paper Whites, $2 to $3. Roman Hyacinths, $2 to $4. Cattleyas, $60. Vandas, $20. Cypripediums, $12.50 to $15. Dendrobium formosum, $40. Poinsettias, $12.50 to $40. Ferns, $1 to $1.50. Asparagus, $35 to $50. Smilax, $12.50 to $15.

Chicgao Wholesale Cut Flower Prices
For week ending Tuesday, Dec. 6

American Beauty, $8 to $40, according to grade; Bride and Bridesmaid, $4 to $12; Liberty, $4 to $15, scarce. Callas, $10 to $15. Carnations, $2 to $5, the latter price calling for very fancy. Lilies, $12 to $16. Lily of the valley, $4. Roman hyacinths and Paper White narcissus, $3 to $4. Stevia and forget-me-nots, $2 to $3.

Send your copy and cuts in season, please.

The Only House
Handling the Superb New Carnation
VICTORY
To be disseminated in 1906
Alex. J. Guttman
WHOLESALE FLORIST
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Random Notes Abroad

Thinking that maybe some of the readers of HORTICULTURE might be interested in reading a little about the doings of their fellow craftsmen abroad in the line of floriculture, etc., and which have more or less interested myself, I have jotted down the following notes.

Having left Boston on August 11, 1903, after an ocean trip of a delightful nature, we landed in Liverpool on the 20th of August and proceeded directly to Glasgow the same day, arriving there late in the evening. I found the weather exceedingly cold and wet, a condition indeed that marked last year throughout in the northern countries of Europe and to an unheard-of extent in Great Britain, causing great hardship to agriculturists and not a little to horticulturists in general. Under those circumstances, then, horticultural as well as floricultural business would naturally suffer from a spectacular or display standpoint, as indeed it did, as could be seen everywhere.

Visited Kelvin Grove Park, a beautiful undulating piece of ground within the city limits, surrounded with fine residential buildings, the university building conspicuously poised on a high knoll within the park, making an imposing picture. I was much struck on entering the grounds to observe the stunted and stumpy growth, also the sparse foliage of the trees and shrubs within the park. On closer inspection, however, the cause was clear, the foliage being thickly coated with soot vomited from an endless number of tall manufacturing chimnies that surround Glasgow, and for which it is well-known as a manufacturing center; to these can be added numberless dwelling-house chimnies belching forth the same sooty deposit resulting from the combustion of soft coal.

Queen's Park in the same city being a little further out, and composed of high land commanding a splendid view of the city, showed to better advantage floriculturally and otherwise. Here I saw one particular feature that pleased me immensely — a long, narrow border planted in the ribbon style, the central row eight to ten inches wide, being of Arenaria tomentosum, a low, spreading plant of a silvery gray color, and on either side a row of Lobelia Crystal Palace Gem, making a splendid combination. The great length of the border contributed to produce an imposing and singularly charming effect. Within the same grounds were to be seen some nice examples of carpet-bedding. There are fine modern greenhouses in this park, stocked with various classes of plants, and evidently well taken care of.

The Botanic Gardens of Glasgow are well within the city limits, and consequently showed the injurious effect of unfavorable surroundings. The glass structures are quite extensive, there being a large oval-shaped flat-roofed structure, called (if my memory serves me right) "The Winter Garden;" designated thus, I presume, from its contents which consisted of winter and early spring-flowering plants. Camellias, azaleas, fuchsias, New Holland and Cape spring-flowering plants, etc., were mostly planted out in a more or less natural way and luxuriated splendidly, the camellias being in fine shape and promising a grand display when in flower. A person could easily imagine that he was outside, except for the roof above, so spacious the structure is, and outside-like the planting.

Next visited Auld Reeky and, though I was not a stranger to Auld Reeky, having worked for some time in the nurseries there in my younger days, yet it never impressed me so favorably before. Its clean and wide streets, with its community buildings, splendid monuments and picturesque situation, made a lasting impression, the salutations of the great German poet, Goethe, when first seeing Edinburgh coming forcibly to my mind, "Edina s darling seat; Hail to thy palaces and towers." Being favored in Edinburgh with one of the very few fine days that I enjoyed while abroad it looked anything but "Auld Reeky."

Princess St. Gardens looked floriculturally much better than the same kind of grounds around Glasgow. One of the finest displays I ever witnessed made of violas was seen here; it consists of three rows of different colors, white, yellow and blue, extending nearly the whole length of the garden. They were planted in rows in their respective colors in front of a large serpentine, so-called, shrubbery border banked up against the railway bed for the purpose of screening the locomotives from view as they traverse the garden. The length of this border being nearly, if not fully, a quarter of a mile, was again instrumental in helping to make the scene impressive and beautiful, the size and correctness of the coloring adding materially. The size of those violas was remarkable, being as large as the prize pansies that we are accustomed to see on our side of the Atlantic, the weather condition that was so detrimental to the majority of other flowering stuff, being doubtless ideal for violas. On the top terrace, on the garden side of Princess St., was to be seen some very good sub-tropical bedding; lilies and gladioli, intermingled with foliage plants, made a very fine showing.

The Botanic Garden, Edinburgh, is very interesting for many things. I was particularly struck with the wealth of hardy climbers for outside work and an equal wealth of tropical and half-hardy climbers for inside work. The rockery is always interesting for the variety of subjects it contains. The glass structures are commodious and contain many fine samples of diverse plants. There are some very large palms to be seen in the palm house.

After leaving Edinburgh, I shaped my course to the north, into the ancestral home, my objective point. This trip being purely taken for recuperating and health-giving purpose, necessarily curtailed the field for the horticultural vision, and only such things as actually came in my way and were of especial interest in this line, were noticed. The ancestral home above mentioned is in Strathconan, Ross-shire, until recent years the northern home and shooting property of the distinguished gentleman who now shapes the destiny of England, Arthur J. Balfour. This is the largest deer forest in Great Britian at the present time. What has that to do with horticulture? Nothing, — only I am coming back to that presently. The shooting lodge is of a long and rambling style of architecture and covers an immense piece of ground. Against the walls of this building and completely covering one-half of it, I found an old "apprenticeship associate,' that most charming creeper, Chilian Flame Nasturtium (Tropæolum speciosum), growing like the proverbial weed in luxuriancy. Such a splendid sight as this was sufficient to banish dyspepsia and all its accompaniments or weeks, and at all times since when the sight is recalled. Ross-shire so far, I believe, can claim to be the home of this creeper, outside its own country, for it luxuriates on all sides, against the cotters', gamekeepers' and shepherds cottages, etc., and without any particular care whatever. This is rather strange when we take into considera-

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tion that it stubbornly refuses to grow with any degree of freedom in England or the south of Scotland, with all the coaxing that a skilled gardener commands. I believe, however, that of very recent years it has been induced to do better in the south. It is easily propagated by seeds, which it abundantly produces in dry seasons; it also increases rapidly by slender underground rhizomes, not unlike couch-grass roots.

Another pretty half-hardy tropæolum I have noticed here and for the first time made its acquaintance, Tropæolum tuberosum or Peruvian Nasturtium. As its specific name indicates, it is tuberous-rooted, and the tubers are good to eat after having been boiled, it is said. Let this be as it may, it is floriculturally a very neat species, and worthy of more extended popularity. The flowers are yellow or spotted and blotched red, half the size of the ordinary nasturtium, but abundantly produced, the leaves being small in proportion. The tubers must be taken up in the fall, and stored away similar to gladioli and such like bulbous plants.

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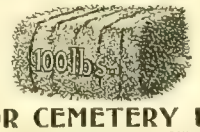
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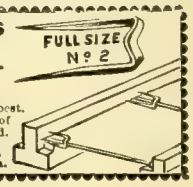
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Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

WANTED — Responsible Solicitors in every community to get subscribers for HORTICULTURE. Applicants must furnish satisfactory reference. Liberal commission. Address HORTICULTURE, 11 Hamilton Place, Boston.

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Advertisements for Number Three

Should reach us by Monday, December 12, if possible, or Tuesday, December 13, at latest. In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment. Just try it, and please remember that

ADVERTISEMENTS FOR

Number Three

Should reach us by Monday, December 12, if possible, or Tuesday, December 13, at latest

News of the Clubs and Societies

Advice for club meeting. Don't let red tape formalities stand in the way of progress. Parliamentary contention has caused the early death of many a promising association.

The Newport Horticultural Society held its seventh annual ball at Masonic Hall, Newport, R. I., on the evening of Dec. 2. The hall was profusely decorated and every feature of the occasion was a pronounced success.

Mr. W. E. Beal of the State University, Urbana, Ill., was the speaker at the special meeting of the Chicago Florists' Club. Resolutions were adopted to appoint a permanent committee to ask an appropriation from the legislature to carry on floricultural experimental work at the Experiment Stations.

The second monthly bulletin of the Park Department of the American Civic Association has been issued under the title of "Items of Park News No. 2." Copies may be secured as long as the edition lasts by writing to Mr. G. A. Parker, P. O. Box 397, Hartford, Conn., who is vice-president of the Department of Parks.

The monthly meeting of the New York Florists' Club will take place on Monday evening, December 12. Election of officers will be an event of absorbing interest to the several candidates and their friends, and a display of florists' supplies from various sources is expected to furnish a further inducement to a record-breaking attendance of members.

The New York Florists' Bowling Club perpetrated the following scores on Monday evening, Dec. 5: —

Ford	208	136	140
Scott	143	132	67
Shaw	124	121	145
Traendly	104	97	127
Burns	124	134	147
Guttman	127	143	157
O'Mara	—	128	114
Holt	—	128	149
Lang	—	175	142

The annual report of the Proceedings of the Society of American Florists and Ornamental Horticulturists has been distributed by the secretary. It contains the complete minutes of the St. Louis Convention, list of plant introductions during the year, and many other documents of great practical value. Accompanying this volume is a copy of the charter, constitution and by-laws of the society, also a full catalogue of all the plants registered up to date by the S. A. F.

The Gardeners' and Florists' Club of Boston will hold a field day at Framingham, Mass., on Saturday afternoon, Dec. 17th, visiting the greenhouses of William Nicholson, S. J. Goddard, and J. T. Butterworth.

Electric car leaves Park Square, Boston, at 12.45, arriving in Framingham one hour later.

The next meeting of the Club will be held Tuesday evening, Dec. 20th, at Horticulture Hall. The speaker of the evening will be David Lumsden of Roslindale. The subject will be Ferns

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have more direct fire surface than any other horticultural boiler on the market, and this together with their ample flue surface and area is the reason of the economical results obtained last winter.

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THEY ARE ALL ALIKE; HERE IS ONE:

Mr. Henry Hentz, Jr., of Madison, N. J., writes; "The two 36 in., nine section 'Pierson' Water boilers you furnished to replace the 36 in., thirteen section boilers of another make, used in connection with the heating of my greenhouses, have proven thoroughly satisfactory in every respect, and I consider the money expended in the change one of the best investments I have ever made.

"In the old boilers I was compelled to use anthracite egg coal to get results, but in the 'Pierson' boilers I was able to use pea coal, and they did the work better with a considerably less quantity of coal, although last winter was the most severe we have had for many years."

WRITE US FOR PRICES

Secretary Herr calls attention to an error in the date as given in the program for the carnation meeting at Chicago, which should be January 25 and 26, not 28 and 29.

Papers and discussions are announced as follows:

Carnation Diseases. By Prof. Hasselbring, of the University of Chicago. Discussion opened by W. N. Rudd and Fred. Dorner, Sr.

Carnations from a Retailer's Point of View. By George Wienhoeber, of Chicago. Discussion opened by P. J. Hauswirth and W. J. Smyth. This paper will be illustrated with a practical demonstration of effects possible with carnations.

Exhibition Carnations. By Fred. Lemon, of Richmond, Ind. Discussion opened by Eugene Dailledouze. This paper will show methods of cutting, packing and staging exhibition carnations.

Cutting, Packing and Shipping Carnations for Long and Short Distance Shipments. By C. L. Washburn, of Chicago. Discussion opened by E. G. Gillett. This paper will be illustrated by practical demonstration.

The regular monthly meeting and floral display of the New Jersey Floricultural Society took place on Dec. 2 at their rooms in Orange. Among the exhibits were choice orchids from the collections of Henry Graves, gardener Edwin Thomas; William Barr, gardener Arthur Bodwell; roses from John Crosby Brown, gardener Peter Duff; carnations from Sydney and Austin Colgate, gardener William Reid; A. C. Van Gaasbeck, gardener Wm. Bennett; Mrs. William Pierson, gardener Charles Ashmead; and Charles Hathaway, gardener M. Hornacker; chrysanthemum Gold Mine from John Crosby Brown; begonia Gloire de Lorraine from Mrs. Wm. Pierson, and a pandanus and crotons from Wm. Runkle.

Totals for the year were given out in the contest for the Society's prizes: —

Flowers.

John Crosby Brown (Peter Duff), 895; Sydney and Austin Colgate (Wm. Reid), 780 — Class A.

Mrs. Wm. Pierson (Charles Ashmead), 665; Charles Hathaway (M. Hornacker), 645 — Class B.

Plants.

William Barr (Arthur Bodwell), 993; William Runkle (D. Kindsgrab), 954 — Class A.

Charles Hathaway, 700 — Class B.

Vegetables.

John Crosby Brown, 475; Mrs. William Pierson, 455 — Class A.

Charles Hathaway, 455; E. J. Brocket (Thomas Maybury), 425 — Class B.

Fruits.

John Crosby Brown, 365; S. and A. Colgate, 330 — Class A.

Chas. Hathaway, 375; E. J. Brocket, 310 — Class B.

The election of officers for the forthcoming year resulted as follows: Pres., Detrick Kindsgrab (unanimously); Vice-Pres., Arthur J. Caparn; Sec'y, William Bennett (re-elected); Treas., M. McRorie.

Jos. B. DAVIS.

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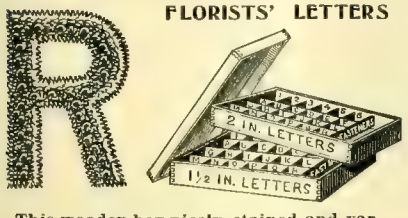
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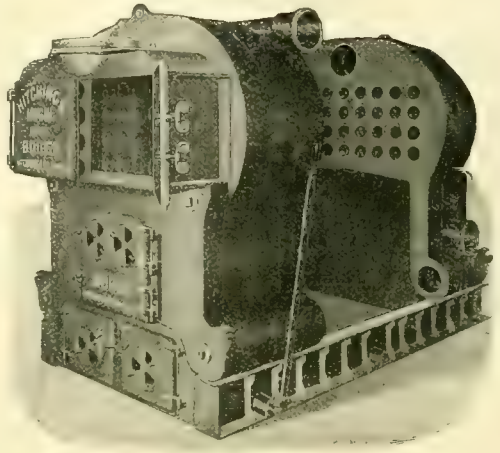
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HORTICULTURE

Vol. I DECEMBER 17, 1904 No. 3



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The beauty and value of this new fern to be introduced Spring of 1905 can best be appreciated by seeing it. It is a sport from the Pierson Fern (Nephrolepis Piersoni), but it is very much more beautiful and of greater commercial value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnae are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnae standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful—entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether, it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced. The cut fronds, on account of their beauty, will be in great demand for table decoration, design work, and for use in boxes of loose flowers. Well-grown plants make most magnificent specimens. We think there is nothing in the fern line that is so handsome as this beautiful fern when well grown. It is a wonderful improvement over Nephrolepis Piersoni in every respect, both in regard to beauty and habit of growth.

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DECORATIVE ART



In arranging flowers for a debutante, where the young lady is to receive a great many, it is wise to let each bouquet have an individuality of its own. Often the simplest flowers if combined wisely as to color and an addition of rare foliage are very pleasing. In this case we used some deep crimson and very light pink dahlias with a liberal quantity of Adiantum Farleyense, the whole backed by a cornucopia of parchment paper acting as a frame.



In the above illustration we made a cluster of lilies-of-the-valley with pieces of very light Cibotium fronds. The cornucopia was made of very delicate blue silk and tied with ribbon to match.

H. H. Battles.

ROSA MULTIFLORA JAPONICA AS A ROOT STOCK

Having used Multiflora as a root stock for Teas and Hybrid Teas for outside planting for the past four years, I can safely say that it is the best stock for roses that we have to-day.

The hardiness, free growing and rooting qualities needed in a good stock can be found in Multiflora. No other rose roots so freely, and strong, fibrous roots make first class stocks.

I have put all outside roses upon Multiflora — Teas, Hybrid Teas and Hybrid Perpetuals, also Maman Cochet and Mrs. B. R. Cant. These, grafted February 15 and planted out May 12, made plants 2½ feet by August 20, with a profusion of long-stemmed blooms of fine quality.

If seedling roots are used, care must be taken to take roots below the seed leaf. Multiflora cannot sucker if roots are used. I use whole roots and sections of roots according to the size of plants needed at a given date. This only refers to one year old; on older plants it does not make any difference.

Roses upon Multiflora root stocks planted in May can be cut down in November within six to eight inches of the ground, and treated as herbaceous plants. No covering is required except a shovelful of soil upon the crowns; and in the spring you have strong shoots that make plants that have no crippled wood by mice. Because of the severity of our northern winters, Multiflora is the only stock to-day that will not sucker or be killed by the cutting down.

My experience with Multiflora under glass has not been upon a large scale. For two years I have tried Liberty, Bride, Bridesmaid, American Belle, Perle, Sunset, and Golden Gate. I must say all of them grew beautifully and bloomed in July in a tempera-

ture of 55 to 60 degrees. Liberty grew fine upon Multiflora roots, while Manetti stock did not do as well in the same temperature. I saw a house of Brides and Perles at Newport two years ago and they looked as fine as anything I have ever seen, and these were grafted on Multiflora. Mrs. W. A. Richardson grew and bloomed in great profusion in August and September in our nurseries out doors upon Multiflora, and was greatly admired. This rose when first tried as an outside variety had to be discarded on account of not being hardy, but it has proved with me to be quite hardy grafted on Multiflora and cut down in November.

The Crimson Rambler is a multiflora, also Electra, Gardeniæflora, Helene, and many of our own new rambling and trailing varieties spring from the Rosa multiflora.

John G Gardner

Plant Improvement

Referring to your comments on plant improvement in issue of December 3d: — The system of improving the cyclamen, as noted therein, is of such a primary character and so comparatively barren of results, that in this day of valuable time I can hardly reconcile such dallying on the border of a field of limitless possibilities, as consistent with our boasted twentieth century progressiveness.

Selection of varieties and raising naturally fertilized seedlings from such selections, is only a short step toward an infinitessimal fraction of the possible satisfaction open to all plant breeders, who must be considered as advancing, more or less slowly, toward the ever rising — but never to be fully risen — sun of scientific horticultural achievement.

The first step should be, hybridization or cross-breeding between such selected varieties — irrespective of color or race — to the limit of variation and stability; with a cotemporaneous systematic effort, to develop domestic specific types, from every obtainable wild species by using pollen from these advanced selections. These efforts should be conducted on many lines, with the hope of rendering the possibilities of each species controllable, for the definite use planned by the operator.

For example: — If the desire is to produce a white section, every effort should be made to originate such colors and shades from every known wild species, without regard to their colors. When fixed types of a desirable character have been so produced, these should be used as sires on selections from existing varieties as mothers, for the creation of new and valuable economic types.

While the foregoing operation is progressing for the production of commercial types, crosses should be made between all of these sires on individuals prepared for use as mothers by removal of the anthers before ripening of the pollen, with the object of creating new and distinct domestic specific types to be used as the progenitors of new forms and races, as well as for the revitalization of strains possessing valuable characteristics worthy of perpetuation and elaboration.

The results to be obtained from blending vital forces that have been isolated for ages in the natural production of wild species, gives unbounded satisfaction, and the present surprises are only limited by the activity of the worker.

In my work on the gladiolus, some of the most beautiful red shades came from crosses between light types that had been revitalized by a dash of choice red blood from new species. The effect of working through the light section added most materially to the substance of the flower.

My highest satisfaction, however, is from a series of new forms with large, round, cup-shaped flowers, like the tulip or nymphea. Many of these are self colors ranging from pure white to lilac and pink, with intermediate shades of the most delicate shell pink and flesh tints.

Multiplicity of the floral pieces, as in semi-doubles, is now quite frequent. Infusions of such blood induces twinning from the seed so produced — a point that proved most interesting to Professor Bateson of England, at the International Plant Breeders' Conference, New York, 1902.

Valuable and interesting variations like the above, are among the side-lines of limitless possibility yearly made apparent to the ardent worker, and selections made by me from over a half million of my new creations, give promise of endless satisfaction, as well as increased opportunities for greater and more rapid progress in the future.



We hope you will like HORTICULTURE and recommend it to your friends in the trade. Send in their subscription now to insure complete file from first number. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

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BOSTON, MASS.

TELEPHONE, OXFORD 292.

To keep up with the Advancement in Floral Taste

"Never look for birds of this year in the nests of the last."

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AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

Next Comes Ye Editor

Widespread and incessant publicity is to-day essential to success. LOOK WELL TO YOUR ADVERTISING.

Banquets make business that begets more business. Funerals make business also, but they kill as much business as they make. One joyful wedding is worth more to the florists' business in the long run than a dozen funerals, each with a wagon load of "designs."

Wonder whether Mr. C. W. Ward or his hundred visitors got the greatest benefit out of that trip to his place last Friday? These social affairs that bring us together in friendly interchange of views on matters of common interest, repay manifold both host and guests, and in the good fellowship they breed, go a long way toward making life worth living.

The beginning of the year 1905 is near. Unless all signs fail, it is to be a year of great prosperity in our land. Now is the time to lay plans to participate in the harvest which seems assured. We think we can help you. Our business is with and for the gardener, florist, plantsman, landscape artist, seedsman, nurseryman, greenhouse builder and manufacturer of or dealer in goods used in these industries. The Hub of horticulture in America has within its circle of easy communication, a very large number of the best buyers of horticultural wares on the continent. This profitable field can be reached more thoroughly and at less cost through advertising in HORTICULTURE than by any other means. These are facts. Test them.

We came upon an old acquaintance a few days ago, none other than the time-honored "orchid with hose attached." According to the *New York Sun* which is, or should be, a model of veracity, this most wonderful thing can be seen "on the shore of a large lagoon in the neighborhood of the Rio de la Plata" doing its daily stunt of sucking up water through several feet length of hose. Having replenished its tank, it rolls its tube into a neat coil and stows it away for future use. The eminent naturalist who watched this interesting phenomenon in its thirst assuaging act should have tested its appetite for something stronger (if he had any to spare), and noted results. W. R. Smith delights in showing a pitcher-plant in his collection at Washington which he has nick-named the "Boston Saloon" because the flies enter at the back door to get a drink. What an amusing pair the "Boston Saloon" and the "Orchid with the Hose" would make!

The history of Begonia Gloire de Lorraine as a people's plant in America throws an interesting light on the struggle which even a superior novelty has oftentimes to make before acquiring the standing of a well-established favorite. Some of us can recall the sensation of overwhelming admiration that came over us when that grand old gardener, the late Fred L. Harris, set before our admiring gaze the first specimen of this peerless plant ever shown in America, remarking in that tone of conscious yet modest pride which was his wont when he had accomplished something that pleased him, "There's the best table or basket plant ever introduced." Scarcely had the new-comer been disseminated, however, when complaints were heard in many quarters of the transitory nature of its flowers after being taken from the greenhouse. Store florists discarded it generally; they condemned it, discouraged customers from buying it and advised growers to drop its cultivation. Here and there, though, a very different story was told. Staunch advocates came forward with an earnest plea that the pretty little novelty be given a fair trial under intelligent cultural conditions, and at last the word was passed around — "She's all right when properly grown." And this claim we have found to be true to an extent not hitherto attained by any other flowering plant. Of no other subject, however popular, can it be asserted that, taken from the greenhouse to the living-room it will thrive in undiminished beauty for months, flowering profusely the winter through.

There are instances of other plants and flowers, now looked upon as almost indispensable, that had to undergo in their early days an experience not unlike that which befell Lorraine begonia, while their habits and their needs were being learned by painstaking gardeners. For all these we owe especial gratitude to the men who, by their skill and perseverance have worked out the practice whereby successful culture of these floral gems becomes an attainment within the scope of all.

What Ye Neighbors Say

"The love of praise, howe'er concealed by art,
Reigns more or less, and glows in every heart."

Your initial number is a great triumph for you, and augurs well for the success of your new venture. — L. C.

Allow me to congratulate you on your first edition of HORTICULTURE. I am taken with its appearance and shall feel proud to be numbered among its correspondents. — T. P. L.

Permit me to compliment you on the initial copy of HORTICULTURE which has just been received. It certainly is most creditable for a first number. May its shadow never grow less. I wish you success, which you richly deserve in your new enterprise. — P. O.

The first issue of HORTICULTURE duly received, and if it were not marked Volume One, No. One, we would conclude that it was a publication of long standing from the neatness and workmanship which is pronounced in every department. — N. S. & Son.

Inclosed is Postal Order, amount $1.00, for subscription to HORTICULTURE for 1905. Copy No. 1 received, and am pleased with the contents. Hope you will make a success of it; there is plenty of room for such a good paper as it promises to be. Wishing you success, also the compliments of the season. — J. T. T.

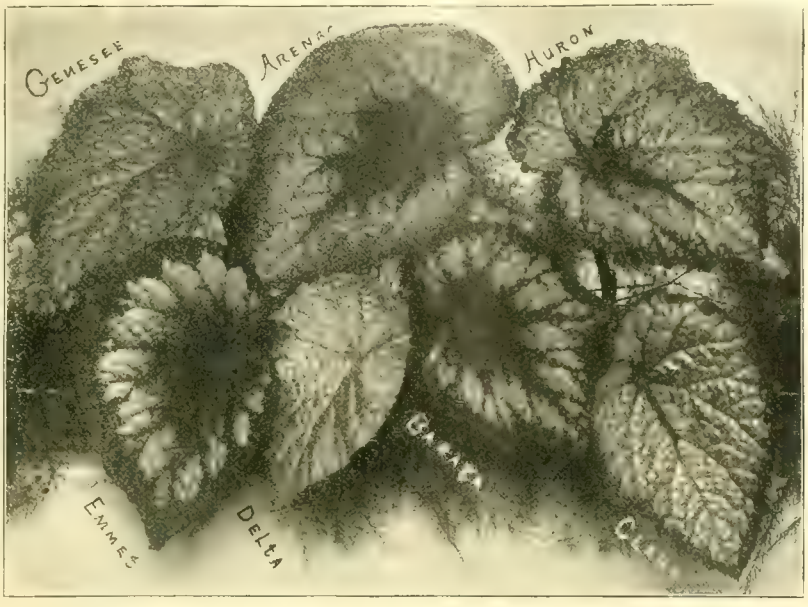
We must congratulate you upon the successful and solid appearance of HORTICULTURE, the first copy of which we received yesterday.

It certainly looks like a "Winner," and we think your paper is in the "Front Ranks" already. We are also pleased with the appearance of our ad., and the manner in which it is set up. — C. & B. Co.

I am in receipt of your No. 1 of HORTICULTURE, and think it is a beauty. The general appearance of the paper is good, and the thing that strikes me is the signed articles with the fac-simile signatures. The paper looks as if it is devoted to the arts and science of horticulture. I think that if you will keep it along on these lines, your success will be unquestioned. You have my heartiest congratulations. — U. G. S.

No. 1 of HORTICULTURE before me, for which you have my thanks. Truly you have reached very nearly the "Ideal" in Horticultural Literature. That you may be successful is my hope, my wish. It almost makes me wish that I was an advertiser, as anything in that line in your paper would be likely to attract attention. Certainly the paper is very much alive Again, accept my congratulations. — C. L. A.

HORTICULTURE just at hand. Delighted! I have looked it over quite closely and the more closely, the more I am pleased. From the title page, which is fine, through the book, I have found very many commendable and pleasing features. I like the form and size. I like the illustrations, and of course "through force" I like the subject matter from such a corps of writers. Keep it up and more, too! — C. W. H.



NATHAN SMITH & SONS' SET OF NEW BEGONIA REX.

After Ye Adjournment

Anton Schultheis, College Point N. Y., sends out a sheet listing his Christmas specialties; a very tempting line.

The Pittsburg Cut Flower Co.'s pencils are all right. We know because we have tried them. Supplemented by a good, live card in HORTICULTURE, they make an excellent advertisement.

Killarney, "the pretty rose with a pretty name," is making staunch friends in the Boston retail stores. But they have to send to New York to get it. Here's a chance for some Boston grower to wake up.

The visit of the Japanese prince to Boston had a favorable effect on the local cut flower market. The Japanese are generous spenders, and on this rare occasion they went the full limit, the best being none too good and price no object.

Adiantum Croweanum is developing a tremendous demand all along the line as its superiority becomes known. John I. Raynor, who handles the supply for New York City, is selling from 2000 to 3,000 a day at $1.50 per 100 fronds, which is double the price of cuneatum.

In the course of a little speech at Queens, last Friday, appreciative of Mr. Ward's hospitality, Patrick O'Mara said that "Long Island is God's country." This acknowledgment from a Jersey man almost took the breath away from his hearers. Anything is possible hereafter!

What is pronounced the finest house of Lorraine begonia ever seen in this country is now at the height of its beauty at the greenhouses of Mr. J. Montgomery Sears, Southboro, Mass. Large numbers of specimen plants are suspended from the roof, making a gorgeous display. Mr. Sears cordially invites all who wish to come and see the show.

News of the Clubs and Societies

At the next meeting of the Gardeners' and Florists' Club of Boston, December 20, a talk on ferns will be given by David Lumsden. The meetings of this association are held at Horticultural Hall.

The Central Passenger Association and the Trunk Line Passenger Association have granted the rate of a fare and one-third to the members going to the meeting of the American Carnation Society in Chicago, Ill., January 25 and 26. It is presumed that the other associations will fall into line and help make this the best meeting and the largest attended of any we have yet held.

There will be a supplement to the premium list go to press the 27th of this month. Any one wishing to offer special premiums or advertise in this supplement should get into communication with the secretary at once.

ALBERT M. HERR, *Sec.*

Lancaster, Pa.

On Tuesday, December 14, the bowlers of the New York Florists' Club went over to Madison, N. J., full of confidence in their ability to vanquish the countrymen. They came home weeping. The scores were as follows:

NEW YORK			
Burns	122	149	151
Kessler	125	153	124
Guttman	93	114	107
Holt	117	136	112
Manda	138	114	148
Fenrich	105	134	145
	700	800	787
MADISON			
Herrington	189	165	163
Keating	162	167	113
Totty	149	108	140
Connors	131	198	147
Duckham	145	195	138
Pluch	161	157	136
	937	990	837

A fine lunch was served at the hotel. A return match in January is proposed.

Landscape Architecture of the St. Louis Exposition

The Exposition recently closed at St. Louis may in area devoted to it, in the size of buildings and in the reported cost, be characterized as great.

An international exposition should represent the development and progress, the honor and trend of the nations and individuals participating. Accepting this view, it is desirable to study the Exposition in its landscape phases.

Landscape architecture is in its crudescent stage in the United States Among its professors Parmentier practiced frankly in Old World styles; Downing — a disciple of Repton — and others have designed works markedly strong and distinctive in a spirit and tradition foreign to our native soil.

The development of the art in this country offers many excellent examples of exceptionally meritorious design in the arrangement of the earth's surface, the verdure, water and buildings upon it. Both where the natural features dominate and where dominated by structural edifices, or again where both are inter-related, there are many illustrations of counterparts being systematically and cleverly coördinated into a unified whole which is strikingly fit and well adapted to its intended use and with complete harmony of appearance.

When the constituent parts of a complex problem are so planned that there is a coördination of functions, the result is above the ordinary. This end is rarely secured except by those having exceptional training and ability.

It is these larger problems and their treatment by American artists that marks the principal advance and trend of our national progress in landscape art.

In modern works there is ever more forcibly evident a broader conception of the main theme, a more unique and fit arrangement of its counterparts, more definiteness and consistency in the motives controlling the elaboration of a plan, besides a finer nicety in foreseeing effects proposed in plan. There is, in addition, a tendency toward a simpler plan — one where the main lines and masses shall be so frankly direct of interpretation, and more simple color scheme; where greater breadths of fewer colors are more boldly and cleverly applied and greater effort made to secure richness by the more delicate use of texture and the arrangement of forms in details.

However we may regard the merit and wisdom of individual examples, the boldness of untrammeled American initiative is evident in executed works. But with the advancement in wealth and culture of our populace the value and vitality of tradition and historic styles is better appreciated. With it there is a greater recognition and more profound deference to the merit of older styles of ornamentation and the difficulty of evolving new styles without reverting to rudimentary crudeness. And yet the style most typical of the United States as a nation, though not strikingly differentiated, is perceptible and real.



Trees seriously injuring and weakening the prospective view along the main axis

Every meritorious design is the outcome of good ideas applied in accordance with the dictates of approved principles. Such a scheme may be dominated by structural edifices; by purely natural objects, or by a fusion of both, but always a good work will perforce present a proper, satisfying and consistent elaboration of the main theme throughout.

There is a peculiar admixture of good with less meritorious design in the landscape architecture of the St. Louis Exposition. The pity is that as a whole it inadequately represents the modern development of the art in this country.

Primarily it is to be noted that in location the St. Louis Exposition lost a feature of extreme value by not having the mighty Mississippi River prominently included in it. North of the city are lovely meadows bordering the river, and south of the city is a rocky eminence commanding views over the city up and down stream and over the Illinois flats to the blue distance. To forsake both of these suitable sites for one more easily accessible and approached by way of a better residential district of the city was an irreparable error for which no proper compensating advantage was gained.



The scheme seems to find its strongest feature in the treatment along its major axis.

The plan disposes of the principal buildings on a main axis, others on another intersecting the former transversely, and then angled and on yet two others diagonal to the main axis and intersecting it in front of Festival Hall. State and minor buildings are distributed promiscuously on a wooded plateau to the east. The scheme of building location seems to find its strongest feature in the treatment along its major axis. At the lower end on a broad flat area is a vast rectangular, graveled plaza with the statue of St. Louis near its upper end; continuing the plaza is a broad lagoon. The upper end of the lagoon is at the base of a semicircular slope rising to a plateau, skirted on its edge by Festival Hall, which is located on the main axis, and two segmental pergola wings, terminated by smaller buildings. From the base of Festival Hall a cascade gushes forth and splashes, during about half the day, over impediments to the lagoon below. The cascade is an imitation of an arrangement at the French Trocadero conceived to allay the objection to stair climbing. By following the water course, pedestrians are led in the original to ascend steps excellently arranged as to proportions of rises and tread, so that with slight exertion beyond that required in walking on level ground, they are enticed to a higher elevation. At St. Louis the volume of water is not sufficiently profuse to afford an impelling attraction, the flanking ornaments are too high to permit of an easy and uninterrupted view of the water, and the steps are so abundant and poorly arranged that visitors are not only not attracted to mount them but are actually discouraged from so doing. Similarly the very narrow overlook terrace in front of Festival Hall and its pergola wings is arranged on several elevations necessitating alternate ascents and descents in traversing it from end to end.

Facing the main lagoon and the plaza are several large buildings, and in front of these is a double row of large trees, softening the fierce sun reflection from the buildings and adding a harmonizing mass of color, but seriously injuring and weakening the perspective view along the main axis.

Angles in the minor transverse axis effect a weakening of the design and the buildings flanking it neither take advantage of the awkward axial angulation nor lessen its ill effects. Separating the buildings on this axis are rows of trees with a narrow — disproportionately narrow — lagoon midway between.

Radiating from the Festival Hall are three axes. Along one the buildings are separated by a sunken panel devoted to low-growing, tender bedding plants with a few trained specimen plants and statues well disposed and in good proportion.

Another axial vista is good, but its terminus is an unmasked skeleton telegraph tower, lamentably injuring a strong architectural feature.

On another axis the area between the buildings is somewhat overwrought in detail and is injured in perspective view by the intrusion of a concession airy structure at its terminus, not designed in strict sympathy with the principal buildings coming into view with it.

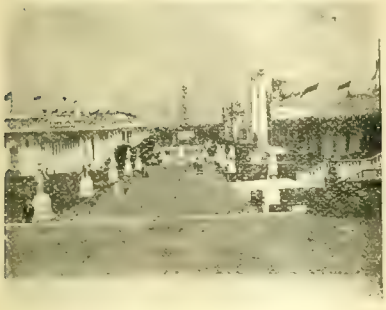
The main entrance is wanting proper dignity through a lack of appropriate structural demarcation, its attendant surroundings, and by its relation to the plan as a whole.



A sunken panel devoted to low growing, tender and trained specimen plants and statues well disposed and in good proportion

In locating the state buildings a most unfortunate result is evident in that no comprehensive or specially meritorious plan is evident; indeed, their disposition would appear to have been without plan. Most flagrantly is this noticeable with the Missouri state building located immediately in the rear of the government building and about forty feet higher in elevation. By too close juxtaposition the appearance of both is injured.

Decidedly proper and consistent was



An unmasked skeleton telegraph tower lamentably injuring a strong architectural feature.

the idea of providing the so-called model street as an important exhibit. There is popular endorsement in this country to efforts tending to have structural architecture requiring an expenditure of public funds represent and reflect the artistic sensibilities of citizens. A suitable demonstration of what has been accomplished as a proper illustration of what may be done or striven for would admirably prove to be one of the fittest displays of this exhibition.

A seeming attempt was made to fulfill this purpose, but as executed merely represents a possible example of a quite ordinary village street. The stupendous potentialities of a large and important problem concerning all our civic centers were neither illustrated or suggested with proper adequacy or force. Whether or not the abortive attempt to instal a commendable exhibit of this phase of our national impulse and progress was due to the limitations of the designers or another is immaterial. There is evidence that the necessary grasp of the problem as a whole or the originality to be reasonably demanded in evolving a single entirely successful example was sadly lacking. As a result, it could hardly be expected that it should be very distinctive or mark an epoch of our progress as does the Federal government exhibit, for example, in its many and varied sections.

Never before has there been such a conspicuous example of the need of the master landscape architect. The preconception of effects dependent mainly on differences of elevation, proportion, grouping and numerous practical considerations are impressive by their bad solution or want of solution.

To-day there is a strong undercurrent of popular feeling that the cities of this country shall give heed to the demands and requirements of art in the selection of statues and other art works; that if a utilitarian structural necessity can be made ornamental at a reasonable added cost without reducing its power to efficiently perform the service which calls it into being, such expenditure is proper. That many public works could be beautified without justifying the expense attendant thereon cannot be gainsaid.

The "model city" might have illustrated how certain public buildings could be grouped, indicate how rail, water and highway approaches to a city might inductively enhance the beauty of each other, suggest the distribution of parks, playgrounds, and parkways, illustrate the disposal of sewage, suggest means of rapid transit and modern sanitation, in short, express what a suitably conceived plan may effect in the furtherance of municipal art and civic development and administration.

It is quite probable that many municipalities in this country shall be beneficially affected by the shortcomings of the landscape demonstrations at St. Louis. In our national development we have passed the stage of requiring an explanation of why a plan is needed, but we are still in need of more critical elimination of plans as expressions of ideas. If this Exposition enforces one of its principal lessons upon the nation, it will be that though a plan may have much merit and display exceptional cleverness in some of its details, it may still be seriously inadequate and undignified in proportion to what may be done.

Abundant opportunity offered itself at the St. Louis Exposition for the exercise of the highest talent in evolving a plan practical in execution and artistic in result. Its scope was such as to engage the most profound thought and creative ability of the most experienced and highest trained professional mind. Whether such has been applied and the result injuriously affected by the interference of directing officials, or whether the outcome is due to the calibre of the designer, is of less moment



The area between the buildings is overwrought in detail.

than a frank recognition that the deficiency exists to a serious degree.

By installing the Louisiana Purchase Exposition, St. Louis, Missouri, and the Federal Government have conjointly made a noble effort, displaying in its execution many excellent attainments; particularly is this notable in the architecture of individual buildings, but real progress is never gained by being deceived into believing bad work to be good. The spirit of these remarks is not to press strictures, but merely to point out defects, and they are rehearsed in a sympathetic feeling for the project. It is immaterial who is responsible, but quite pertinent as to what result has been achieved.



The buildings neither take advantage of the awkward axial regulation, nor lessen its ill effects.

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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

New York Wholesale Cut Flower Market

For Week ending Dec 14, 1904

Snow and cold, cheerless weather left their impress on the roses during the past ten days, and it can be truthfully said that seldom at this time of year do the Brides and Bridesmaids average so low in quality. Color and texture are away off in much of the stock coming in. American Beauty also feels it, but in less degree. Other than the above there is little to be said regarding the flower situation. Some fine lilacs, calanthes and camellias displayed in Thomas Young, Jr.'s showcase this week are the advance guard of the rarities that may be looked for from time to time from now on. L. Coatsworth of Chicago, and Jos. Heacock, Wyncote, Pa., made a tour of inspection of the wholesale establishments the past week.

New York Cut Flower Prices per 100

American Beauty, fancy and special, $25 to $50; extra, $15; Nos. 1 and 2, $4 to $8; Bride and Bridesmaid, extra, fancy and special, $8 to $15; Nos. 1 and 2, $2.50 to $6; Liberty, extra, fancy and special, $12 to $25; Nos. 1 and 2, $3 to $8. Carnations, Lawson, $3 to $4; Enchantress, $6 to $8; ordinary, $1.50 to $3. Violets, $.60 to $1; special, $1 to $1.25. Lilies, $16. Lily of the valley, $3 to $4. Narcissi and Roman hyacinths, $1.50 to $2. Smilax, $8 to $10.

Buffalo Wholesale Cut Flower Market

For week ending December 13, 1904

There is no scarcity of flowers of any kind in this market. Plenty of everything for all demands. Last week's conditions as reported in HORTICULTURE still prevail.

American Beauty, special and fancy, $35 to $50; Nos. 1 and 2, $10 to $25; Bride and Bridesmaid, special and fancy, $8 to $10; Nos. 1 and 2, $3 to $6; Liberty, special and fancy, $10 to $12; Nos. 1 and 2, $3 to $10; other varieties, special and fancy, $8 to $10; Nos. 1 and 2, $3 to $6. Carnations, Lawson and Enchantress, $3 to $5; ordinary, $2 to $3. Violets, $1 to $1.50. Lilies, $15 to $18. Narcissi and Roman Hyacinths, $2 to $4. Asparagus, $40 to $60. Smilax, $12 50 to $15

The Only Wholesale Plant House in New York City

Saves Time Saves Money Saves Trouble

CHARLES MILLANG

50 West 29th Street New York City

TELEPHONES, 3860-3861 MADISON SQ.

ORCHIDS In Large or Small Quantities

James McManus

50 West 30th St., *New York City*

Telephone, 759 Madison Sq.

THE ONLY HOUSE

Handling the Superb New Carnation

VICTORY

To be disseminated in 1906

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55 West 26th St., New York

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THE ORIGINAL

Wholesale Florist

FLOWERS HANDLED ON COMMISSION

CAREFUL PACKING and SHIPPING

117 West 30th Street, New York

WM. GHORMLEY

57 West 28th St. - - NEW YORK

ALL POPULAR ROSES and CARNATIONS for CHRISTMAS

RHINEBECK .. VIOLETS .. THE CREAM

Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens

ALL SELECT STOCK

Our Flowers

ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. Splendid stock is now coming in and the holiday crop will be JUST RIGHT. We are prepared to furnish what you require, all GOOD MATERIAL and REASONABLE PRICES. But don't put it off until the ast. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 28th Street, New York City

Telephones, 798-799 Madison Square

Ford Bros.

111 West 30th Street, New York

Buyers can now place their orders for shipments of Holiday Flowers. We are the leading dealers in

Up-Hudson Violets and Fancy Carnations

A full line of all other CUT FLOWERS.

Telephone, 3870 or 3871 Madison Square

SIGMUND GELLER

FASTEST GROWING SUPPLY HOUSE

110 West 28th St., New York City

Telephone No. 1747-J Madison

Money Making Novelties

Red Paper Christmas Folding Bells

Can't be beat. 6 in., $1.25 doz.; 9 in., $2.50 doz.; 12 in., $5.00 doz.

Novel Bark Goods *(wonderfully popular).*

Waterproof Japan Two-Tone Silk Crepe Paper

Embossed Plain and Plaited Crepe Paper

Immortelles, Moss, Wreaths, all Christmas Supplies.

Grass Growing Pigs. Very amusing and interesting. The latest novelty. Selling Wherever Shown

Full Line of

RIBBONS & CHIFFONS

FOR XMAS and ..NEW YEAR'S

Erica Fragrans $1.50, 2.00

One house full of this splendid Heath especially for New Year's

Azaleas, Pink, White and Red, $1.00, 1.25, 1.50

Cyclamen 50c., 75c., $1.00

Daisies $1.50, 2.00

Jerusalem Cherries, $4.00, 5.00, 6.00 per doz.

Dracaena Terminalis, 75c., $1.00, 1.25, 1.50

Dracaena Fragrans . $1.00 to 3.00 each

Crotons . . . . . 75c. to $2.00 each

PALMS, PYRAMID BAYS and ARANCARIAS

Holiday orders should be placed at once

ANTON SCHULTHEIS

College Point, L. I., N. Y.

Mention HORTICULTURE.

FLORISTS' TOPICS

It Bobs Up Again

What can the growers and retailers do to improve present conditions?

The growers say low prices. I call on John Jones who grows Brides, Bridesmaids and other roses of a similar character, and he holds up a bunch in front of me.

"What do you think of them?"

Some of them are as big as your fist and the foliage is perfect, and I respond, "Fine."

"Fine, heh! What do you think I got from my commission man last month for such stock?"

"Oh, I don't know. I see extra and specials quoted at from six to eight dollars per 100."

"Six to eight is it! Well, let me tell you that my returns for November averaged just about one cent apiece."

"The deuce, you say."

"Yes, sir! And what's your old florists' club doing about it? Do you think we can pay labor and coal and interest and other running expenses on one cent for such roses as these?"

"Well, but here! What's the florists' club got to do with it?"

"Why, what's it for? Isn't it to help the trade? And what would help the trade better than getting remunerative prices? Let the growers all get together and cut off the fakirs who bring down our average from 8 cents to 1 cent, and they will be doing something that will justify them in having an organization."

"Very good; will you come down and start the ball a-rolling at next meeting?"

"*No*, sir. I'm not looking for notoriety."

And there you are! We all know what's hurting us, but who's going to "Bell the Cat?"

Until the men who are hurt make up their minds that they must apply the remedy themselves it will never be applied. A club is only a collection of individuals. Of course one remedy is to have all stock not sold to the regular trade repressed and not sold to the fakirs. Can the growers get together on that? Are there enough here tonight to make a committee to try and see what can be done?

The foregoing is the gist of some remarks I made at the last Florists' Club meeting in Philadelphia. The discussion that followed was animated. John Burton thought we had settled years ago that the fakir in the long run was not really a detriment but a help to the business, and he could see no prospect of bettering conditions by abolishing him. E. G. Hill of Richmond, Ind., said they had passed an ordinance in Chicago forbidding the fakir, but he could not say that it had improved conditions. In Chicago a Greek firm bought up all the left-overs and shipped them out to nearby cities to their agents. Ben Dorrance, of Wilkesbarre, thought the fakir was a good thing, and told of his experiences shipping to New York. H. H. Battles was of the opinion that many a person got his taste for flowers by buying a cheap bunch on the street and regarded the street man rather as a pioneer and feeder for the more advanced distributors of flowers. Robert Kift spoke in a similar vein. The consensus of opinion seemed to be decidedly in favor of the humble street merchant and the discussion was valuable in that it made this fact quite evident. John Jones was present at the meeting, but he must have been double-rivetted to his seat, for he never rose to say a word.

GEO. C. WATSON.

Crowding Flowers

The general public is slow in grasping a correct taste in the arrangement of flowers. When the fair one gets a bunch of roses, her first impulse, after a few ecstatic sniffs, is to crowd them together and put them in the window for the benefit of the neighbors and passers-by.

We see miserable examples of this bad taste in arrangement in countless windows, and it gives a painful shock to see good flowers so wasted.

How much more graceful and effective if she would take just a few of them and place them loosely so that each flower could show some individuality. Three carnations in a thin vase are far more effective in a table decoration than fifty crowded close together in a jug. The up-to-date flower stores have made good progress of late years and study continually all the fine points of arranging and designing. They would be doing a good work in educating the public if they would put a card in each box of flowers something like this:

TO ALL FLOWER LOVERS

Do not crowd your flowers. Arrange them loosely so that the individuality of each blossom can be appreciated. The effect will at once be seen to be much more graceful and charming. POSEY & CO.

Of course these remarks refer only to long stem flowers. Violets, nasturtiums, and subjects of that nature are a different proposition. The violet, for instance, owes its popularity to its delightful fragrance, and it is not to be considered as a flower for decorative effect.

Here, There and Everywhere

Mr. A. S. Fetters, formerly of the firm of Smith & Fetters of Cleveland, O., has removed to Detroit, Mich.

There is a well-grounded impression abroad among the retail florists that the coming season is to be a very busy one.

The greenhouses of Claude Warburton at Battle Creek, Mich., were damaged by fire on the morning of Nov. 27, to the amount of $2,000.

Miss Emma E. Cartwright, daughter of George Cartwright of Dedham, Mass., was married to Mr. Claude T. Taggart of Philadelphia, on November 30th.

Thomas H. Kearney of the bureau of plant industry at Washington, is about to take a trip to North Africa in search of new plants adapted to cultivation in the southwestern U. S.

A fine new wagon and a new electric sign are the outward and visible evidences of that prosperity which has rained of late on James M. Thoirs, the popular Camden, N. J., florist.

Another Lawson Scheme

SALEM, Nov. 17. — Tears coursed down his cheeks and sobs of deep grief shook his manly bosom as he told Florist Ward how to make a huge floral pillow for his deceased wife.

"Spare no expense," he sobbed as he wiped away a few tears, "and put the word 'wife' across it in big letters of purple immortelles."

"My name is Lawson, William F. Lawson," he continued, giving his address, "and I'll just take a couple dozen of those big Lawson pinks; don't you think they'd be rather appropriate, for my wife's name is — was Lawson, too, you know."

Florist G. E. Ward thought "Lawson" pinks would be appropriate all right, so Lawson took his pinks, brushed away a few more tears and walked sobbing and unsteadily from the shop. That was yesterday. In the afternoon the florist delivered the floral pillow, on which no expense had been spared, and also on which the word "wife" had been placed in purple immortelles.

"Here is the pillow for Mrs. Lawson's funeral,' said the florist as he delivered it.

"For what?" asked the woman who came to the door.

"Isn't this where Mr. William F. Lawson lives?" asked the florist, thinking he had got the wrong house, as he saw no crape on the door.

"Well, here's the pillow for Mrs. Lawson, who has just died; it was ordered by her husband," said the florist when the woman told him he was at the right house. She took the floral design, ripped off the tissue paper, read the word "wife," and then looked at the florist.

"Do I look as though I were dead?" she asked. There was considerable color in her face and much fire in her eyes, together with certain firm lines about her mouth that caused the florist to admit instantly that she was the healthiest looking corpse he ever saw.

The "deceased" wife wouldn't take the pillow; she said she had no use for it, but would like to see her husband just then. The florist said he would, too, and said something about "Lawson pinks" being appropriate also.

This morning, on the charge of the larceny of one bunch of Lawson pinks, Mr. Lawson was sentenced to a month in the House of Correction.

— *Boston Journal.*

Chrysanthemum W. S. Allen has proved to be one of the best sellers in the New York market this season.

Palms, Ferns and Decorative Plants

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & COMPANY

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Roslindale, Boston, Mass.

FANCY HOLLY

WE offer again the same high grade of Christmas Holly that we have supplied in past years. IT COMES FROM THE SAME DISTRICT as last year's, and for those who bought from us last year it NEEDS NO RECOMMENDATION. Cases 2x2x4, guaranteed full cases.
Single case, $5.00; two or more cases at $4.50; five or more cases at $4.00

Laurel Wreaths, Roping, Etc.

CUT FLOWERS

A Full Line of Choice Stock **FOR CHRISTMAS**

Out-of-town Trade Supplied with Fresh, Handsome Material at prevailing **Boston Rates** for equal quality

N. F. McCarthy & Co.

Telephone, Main 5973

84 Hawley Street, BOSTON

Lilies Plants and Cut Blooms

Of Highest Grade at ALL SEASONS
Japanese Miniature Plants for
THE HOLIDAYS

Hinode Florist Co.

5th Street, Woodside, N. Y.

The New **Xmas Green**

California Pepper Berries

Cut with Stems 3 feet long. Thousands of bright, red berries and beautiful foliage on every branch. $5 per case, 35. lb.; cash with order.

F. Lautenschlager, Chicago, Ill.
2023 N. Marshfield Avenue

L. B. BRAGUE

HINSDALE, MASS.
WHOLESALE DEALER IN
BALED SPRUCE



FOR CEMETERY USE
SPECIAL ATTENTION PAID TO FURNISHING IN CAR LOAD LOTS

—MADE IN—

HINSDALE, MASS.

The Best LAUREL and BOUQUET GREEN ROPING, and WREATHS, CROSSES, ANCHORS, etc., also supplies of RED XMAS BERRIES on SPRAYS for florists' use. HARDY, CUT, FANCY and DAGGER FERNS, BEST IN THE MARKET. SPHAGNUM MOSS, SHEET MOSS, XMAS TREES by the CAR LOAD or in small lots, the best to be had. Write for prices. Address

H. J. SMITH
Hinsdale, Mass.

. . . HOLLY . . .

FERNS, GALAX
and ALL HARDY GREENS
for CHRISTMAS

Best Stock in the country
Florists' Supplies

H. M. Robinson & Co.

8 and 11 PROVINCE STREET
BOSTON, MASS.



F. H. TRAENDLY
Re-elected President N. Y. Florists' Club.

The New York Florists' Club held a rousing meeting on Monday evening, December 12. Although the program as announced provided no specially important business other than an exhibition and the annual election of officers, yet the hands on the clock had passed the 11.30 P.M. mark before adjournment was reached, and even then many of the attendants seemed to be in no particular hurry to depart.

The expected exhibition of florists' holiday supplies did not materialize. Not an article of this kind was offered by any one, although the opportunity for the dealers in these goods to get a little business thereby would appear to have been excellent. On the tables were, however, some very interesting novelties. Among them were vases of two new roses from E. G. Hill, viz. Richmond and Rosalind Orr English, both American seedlings. Richmond with its generous, broad petals of glowing crimson scarlet, fine stem, foliage and fragrance, impressed all who were present as a sure winner that would supplant Meteor and Liberty as florists' roses. From Ben. Dorrance came a vase of his seedling No. 6, a pink bud of only moderate size, but which Mr. Dorrance said would offset this lack by its extreme florifcrousness. Wellesley, the lovely pink rose from Waban Rose Conservatories, was represented by two large vases of full blown flowers which did not do full justice to the variety.

The two scarlet carnations of which we have heard so much of late — C. W. Ward's Robert Craig and Weber & Guttman's Victory — were each shown to advantage in large vases, and under the favorable conditions for comparison, it was seen that the two varieties are widely different in form and other characteristics, including color, which, under artificial light at least, was quite distinct, Victory being of a lighter tint. Geranium Telegraph from Thos. Devoy & Sons was shown in good form, its enormous orange scarlet flowers in big trusses, and its Bruant lineaments giving promise of a bright future as a bedding variety. Fiancee from the Chicago Carnation Co., Lieut. Peary and a number of seedlings from Cottage Gardens, and Dorner's Eclipse and Lady Bountiful from Vaughan's seed store, completed the list of exhibits, all of which were duly noted and mentioned by the examining committee.

The committee on awards reported on its recent visit to Cottage Gardens. Seven members had been present to inspect carnation Lieut. Peary, had found it a free grower, and a commercial variety good in all points, scaling 90 points and entitled to a certificate. Ethel Ward had scored 82 points. Robert Craig which had been certificated last spring by a sub-committee was again examined and given 93 points in confirmation. It was stated that the same plants that had been inspected last April were found to be still in splendid condition. Two members of the committee had gone on invitation to inspect Messrs. Guttman & Weber's Victory. Their report showed it to be a superb scarlet entitled to 86 points and a certificate. Mr. Guttman later in the evening asked to have the variety re-submitted to a view by the full committee, feeling that a small committee's report would have less weight, but after considerable discussion it was voted to stand by the original report. A report was also made on carnation Phyllis, being grown by J. N. May at Summit, N. J., which the committee had inspected and given 86 points as a good "bread and butter" variety, well-tested and verified.

J. Austin Shaw reported for the outing committee, showing a surplus after paying all bills. The committee appointed to promote the interests of Prof. W. G. Johnson as a candidate for the position of assistant secretary of Agriculture, had done their duty, but were unsuccessful, as the position had been filled by an appointment from Minnesota.

A hearty vote of thanks was accorded Mr. and Mrs. C. W. Ward for their hospitality on the occasion of the recent visit of the club to Cottage Gardens.

The election of officers resulted in the choice of Frank H. Traendly, president, J. Austin Shaw, vice-president, John Young, secretary, C. B. Weathered, treasurer, and Messrs. John Scott, A. S. Burns and W. F. Sheridan, trustees. The officers-elect were severally called upon for speeches and each responded, giving credit to their associates in office during the past year and promising faithful work for the next. Messrs. Hafner, Sheridan and Weathered were appointed committee on annual dinner, and Messrs. Moore, Beaulieu and Nash on death of Mrs. Henry Hentz, late of Madison, N. J.

E. G. Hill of Richmond, Ind., who was an interested visitor at the Club meeting, contributed an entertaining little speech replete with wit, stories and wise counsel. Speaking of the usefulness of flower shows, he expressed regret that at the recent World's Fair show in St. Louis, free admission had not been provided for, so that 350,000 people instead of 30,000 might have witnessed the display.

William Duckham endorsed Mr. Hill's remarks and told of the fine flowers he had seen on his western trip. Ben. Dorrance of Wilkesbarre was the last speaker. He made an earnest plea for united effort from the entire country on behalf of the approaching Rose Exhibition at Boston, deprecated the tendency to sectionalism, and urged united effort in support of all the organizations working for the common good.

As at all New York Florists' Club affairs, the inner man was well remembered by the efficient house committee and the social features of the meeting were no small factor in its enjoyableness.

Providence Wholesale Cut Flower Market

For week ending Dec. 14, 1904

Business in Providence has been very brisk ever since Thanksgiving. A great many social events called for all the cut flowers grown regularly, besides a good many that are brought from outside sources. Roses are somewhat scarce at present. It looks as though there would be an abundance of violets for Christmas. In the plant line there is a brisk sale for Lorraine begonias and poinsettias.

A Visit to Cottage Gardens



BEGONIA GLOIRE DE LORRAINE
As Grown at Cottage Gardens.

The visit of the New York Florists' Club to Cottage Gardens, Friday, December 9, on invitation of Mr. and Mrs. C. W. Ward, was one of the most enjoyable affairs of the kind on record. A special train was placed at the disposal of the party, which numbered close to one hundred, and conveyed them over a local branch track direct to the greenhouses. Once there, they found material in abundance to interest them, — in the houses, among the carnations which looked handsomer than ever before, if that were possible, and the Lorraine begonias which made a superb show; in the sheds and storehouses devoted to choice nursery stock and in the big workroom where was provided a generous feast — just the kind and served in just the way best calculated to touch the heart of a florist and gardener gathering. The day was spent most happily, and at its close an appreciative speech was made by Mr. O'Mara on behalf of the visitors, which was responded to by Mr. Ward, who announced that it was his purpose to make this a semi-annually recurring event and invited all now present to come again in the spring, when the nursery will be at its most attractive stage. Mr. Ward's remarks were received with enthusiastic cheers. A special train conveyed the party back to Long Island City.

Among the varieties especially admired were Robert Craig, Enchantress, Octoroon, Ethel Ward, President, Mrs. Lawson, Hinsdale, Mrs. Patten, Nelson Fisher, Lieut. Peary, Mackinaw and a number of phenomenal seedlings, one of which is a chaste and altogether lovely white of enormous size, of Prosperity parentage. The Lorraine house was a sight to be long remembered. A photograph of a single plant accompanies these notes, also a group picture of some of the visitors. This group was taken in the new storage house now being finished off for the reception of rhododendrons and other garden material benefiting by winter shelter. The building is 35 × 200 feet in area and will be followed by another of 400 feet in length. The glass roof is on the north exposure, the south side being boarded up to keep the sunlight out.



NEW YORK FLORISTS' CLUB AT COTTAGE GARDENS.

NEWPORT HORTICULTURAL SOCIETY

The annual meeting of the Newport Horticultural Society was held on Wednesday evening, 7th inst. The attendance was the largest in years.

The reports of the officers for the past year were of a most gratifying nature, showing that the society was not only in a sound financial condition, but that more had been accomplished along the lines on which the society is founded than ever before.

At this meeting much business was transacted but what may be of most interest here was a recommendation made by the secretary and treasurer and unanimously adopted by the society, — that a permanent fund should be immediately created in order that the society may be able to purchase property whereon in the near future a building may be erected for the society's uses.

The members are enthusiastic over the building project, one of the society's oldest members — one of its founders, in fact, — remarking that he could not understand how such a scheme had been so long delayed.

The Rhode Island Horticultural Society at a recent meeting passed resolutions favoring the idea of a federation of all the agricultural and horticultural societies of the State, and with this end in view, elected a delegate to represent it on an executive committee thereof.

It is expected the action of the Rhode Island Horticultural will be heartily endorsed by the Newport Horticultural, and a delegate appointed when next it meets.

GOLSPIE.

LA DETROIT ROSE

Strong Field-grown Plants { Per 100 $15.00 | Per 1000 $125.00

THE TWO GRAND NEW WHITE

CHRYSANTHEMUMS

MAJESTIC and ADELIA - - - -

90 Points *Score Commercially* *89 Points*

Rooted Cuttings { Per doz. $3.00 | Per 100 $15.00 | Per 1000 $125.00

From 2-inch Pots, 5 Cents additional

"MAJESTIC" won First Prize for best one hundred White at the great World's Fair Flower Show.
"ADELIA" capable of doing the same trick in the same company.

MADONA, A Fine Pink at same Prices

CARNATIONS

WHITE LAWSON and FLAMINGO - - -

Rooted Cuttings { Per 100 $7.00 | Per 1000 $60.00

Our "WHITE LAWSON" won First Prize for best one hundred Blooms at the great World's Fair Show.
Our "FLAMINGO" won First Prize for best one hundred Scarlet.

SNAPDRAGON

GIANT PINK, WHITE AND YELLOW

From 2-inch Pots { Per 100 $6.00 | Per 1000 $50.00

JOHN BREITMEYER'S SONS

DETROIT MICH.

For Christmas

Carnations, Roses, Violets,
Lily of the Valley,
Poinsettias
And American Beauties

In large quantities at reasonable prices

WELCH BROS.

15 Province St., Boston, Mass.

Here are THREE WORTHIES worthy of your consideration:

Fiancee
The FINEST PINK

The Cardinal
The FINEST SCARLET

Fred Burki
The FINEST WHITE

Without exception, the best in their respective classes.

$12 per 100. $100 per 1000.
250 at 1000 rate.

S. S. SKIDELSKY

824 North 24th St. Philadelphia

Mufflers and 'Mums

According to the veracious reporter in Paris of *London Truth*, mufflers on Chrysanthemums are a specialty of M. Chauchard of Longchamps, an amateur with a small collection of some ten thousand varieties and a mere bagatelle of gardeners which he calls "an army" to take care of them.

Here are a few of the solemn truths this careful observer reports: —

"On the 11th (November) the Loubet family were the guests of M. Chauchard during the unique annual flower festival. Professional gardeners all over the world contribute to it (Chauchard's Chrysanthemum collection) the rare varieties they have discovered."

Discovered is good. No doubt those professional gardeners penetrated to the heart of the unknown deserts of Asia and Africa, scaled the Andes, the Alps and the Himalayas, chased the Aurora Borealis and hung their hats on the north pole in their search for many of those ten thousand varieties.

"He (M. Chauchard) has from mid-October quite an army of gardeners at work every evening covering the chrysanthemum beds with white muslin. They have straw over their roots and this textile over their heads to protect them from the night frosts. Air and sunshine are given in the early afternoon when both mufflers are removed."

Early afternoon is undoubtedly a good time to take off the mufflers. If they waited until late afternoon, it would of course be too late to take them off. Our American experts will please note that about two hours' exposure to daylight between early afternoon and late afternoon is the "proper caper."

"All the reception rooms of the villa were marvellously decorated. The greatest specialists in the art of flower decoration had been called in during the decoration period. The 10,000 varieties registered overtax by profusion and variety the retentive faculties of eye and mind."

Yea, verily! And the greatest decorative artists were called in! No wonder. Perhaps they even sent to America for some of our capital I's and We's. Has any one heard of Battles, of Pennock or Stumpp, or Klunder or Galvin having been abroad lately?

"A novelty of last week's show was Candeur de Enfance, dedicated to the czarewitch. The peculiarities are extremely long, irregularly curled petals, snow white and resembling silk threads in gloss and texture. Other peculiarities are russet foliage blended with red and yellow and having the vividness of Indian summer hues The creator of this species sent a crateload of his best flowers to Russia for presentation to the empress."

White silk floss! Russet yellow and red foliage! Indian summer hues! Where are you, Elmer D? Do you hear that?

And to think that all this was happening among the festive denizens of gay Paree while we of St. Louis, Chicago, Boston, New York and Philadelphia each thought we had "the biggest show on earth." What gazaboos those Johnny Crapauds must think we are!

And to think that a great daily —

R. C. HAYDEN, Secretary and Treasurer WILLIAM J. MUTH, Manager

THE PHILADELPHIA CUT FLOWER CO.

Wholesale Commission Merchants

High Grade Seasonable Cut Flowers

OUR SELECTED SPECIALTIES:

BEAUTYS, BRIDES and MAIDS; FANCY ENCHANTRESS, LAWSON, PROSPERITY, ETC.

A TRIAL ORDER IS REQUESTED

1516-1518 SANSOM STREET . . . . PHILADELPHIA, PA.

HEADQUARTERS FOR SEASONABLE NOVELTIES AND FANCY STOCK. Pittsburg's Largest and Oldest Wholesalers

Pittsburg Cut Flower Co., Ltd., 504 Liberty Ave., PITTSBURG, Pa.

WANTED: Consignments of High Grade Carnations.

the one claiming to have the largest circulation in the State of Pennsylvania — should provide such tommy-rot for the information of its readers!

Is it any wonder that the horticulturists of the country had a serious conference at St. Louis last November, and that one of the problems they wrestled with was how to educate our educators (the Press) so that they might be a real help in making America blossom like the rose. They could so easily do it if they would only take a little trouble. Of course the average editor is human, and he wants first of all to make his paper entertaining, so that the masses will read it and put money in his purse. As a rule he is mortally afraid of a long article in a professional journal. To him it is dry-as-dust, dull, uninteresting.

But couldn't he take such an article and give it to one of his bright young men to dress up and make entertaining, without departing from the essential facts? It's not what you say, but how you say it, that makes all the difference between an article that is dull and prosy and one that is bright, interesting and readable. Few of the professional men have the newspaper instinct. They have a good grip of their facts all right, but as a rule they have no more idea of how to dress them up to make them readable or entertaining than a pig has of playing the fiddle. The Falconers, the Stewarts, the Scotts, the Donlans, the Rudds, and others of their class are far too few to be much heard in the mighty hum of professional monotony. I wish I could write entertaining things! I'd tackle those newspapers myself!

I used to be a thoroughgoing pessimist about the press. Eleven years ago, before the Society of American Florists at its convention in St. Louis, my subject was "How to increase a love of flowers among the people," and I used then all my little eloquence in denouncing the misinformation about horticulture in the press of that day. On many occasions since, in public and in private, I have done the same. But I am not so much a pessimist. I think I can see a change for the better as I look back. Many of the great dailies are now giving us much better stuff and the lapses into nonsense are much fewer. So after all — nevertheless and notwithstanding and moreover — the outlook is more cheerful than many of us suppose when we stumble on an example of heinous tommy-rot like that of my London truthful friend of the chrysanthemums and mufflers.

GEORGE C. WATSON.

Palmer's Red Lawson

NOW READY!

SPORT FROM THE FAMOUS MRS. THOMAS LAWSON

Planted May 18th, in full crop middle of August

ROOTED CUTTINGS:
$10.00 per 100
$40.00 per 500
$75.00 per 1000

Ask your *Brother Florist* if he saw it at the Detroit Carnation Show. Ten to one he will say it's a good carnation to grow. **Received CERTIFICATE OF MERIT at Detroit Carnation Show—scoring 87 pts.**

W. J. Palmer & Son
Lancaster, N. Y.

Philadelphia Wholesale Flower Market

WE are not THE Wholesale Florists of Philadelphia, but we are THE ONLY WHOLESALE FLOWER MARKET in Philadelphia. When in need of FRESH FLOWERS call on us

1235 and 1237 Filbert Street Philadelphia, Pa.

A Good Christmas Suggestion

SEND YOUR ORDERS TO

The LEO NIESSEN CO.
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1217 Arch St. Philadelphia

J. A. Budlong
37-39 Randolph Street, CHICAGO
Roses and Carnations a Specialty
WHOLESALE GROWER OF CUT FLOWERS

Mention HORTICULTURE when you write

ORCHIDS
AND
Fancy Cut FLOWERS
a Specialty

IF YOU WANT CHOICE CUT FLOWERS AT ANY TIME OR ALL THE TIME, SEND TO

CHAS. W. McKELLAR
51 WABASH AVE., CHICAGO.
WESTERN HEADQUARTERS FOR CHOICE ORCHIDS, ETC., ETC.

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CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
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Telephone No. 325 Madison Square.

GEORGE A. SUTHERLAND CO.
Cut Flowers, Florists' Supplies and Letters
XMAS HOLLY
34 Hawley St. - BOSTON

Philadelphia Wholesale Cut Flower Market

For week ending Dec. 14, 1904

The American Beauty rose is coming in a little more plentifully. No advance is yet apparent in the price of these, although there is some talk of a higher value this week. Cloudy weather has affected business somewhat, and has had a decidedly unfavorable effect on quality of roses.

Carnations are moving satisfactorily, with a tendency to stiffer prices. More of the white varieties could be used at present. Some fancy stock sold as high as $8 per hundred. Hinsdale, Patten and Enchantress are extra sellers. Chrysanthemums are about over, but there are a few Dorothy Faust and late Mrs. Jerome Jones still in evidence, that bring from 25 to 30 cents a flower. The sale of violets has been unfavorably affected by the late bad weather, otherwise the market is normal. Good lily of the valley moves all right. Cypripediums are plentiful and find a fair outlet. Cattleyas still scarce. Dendrobium formosum, phalaenopsis and vandas plentiful. Paper white narcissi plentiful and slow. Roman hyacinths plenty; moving in pretty fair shape. Smilax moves slowly. Asparagus in good demand. There is some very good holly about, but it brings full value. Mistletoe is good and plentiful; also bouquet green and wreathing.

Philadelphia Wholesale Prices as quoted per 100 to Dealers

American Beauty, extra, fancy and special, $30 to $50; Nos. 1 and 2, $12.50 to $20; culls, $6 to $8; Bride and Bridesmaid, $4 to $12; Liberty, best, $20 to $25; ordinary, $8 to $15; Golden Gate, $4 to $12. Carnations, Lawson, $3 to $5; Enchantress, $5 to $8; Prosperity, $6 to $8; Hinsdale, $8; other sorts, $4 to $5. Violets, single, $.30 to $.75; double, $.50 to $1.50. Lilies, $16 to $20. Lily of the valley, $3 to $4. Narcissi, $2 to $3. Roman hyacinths, $2 to $4. Asparagus, $35 to $50. Smilax, $12.50 to $15.

Cincinnati Wholesale Flower Prices

For week ending Dec. 14, 1904

American Beauty, $30 to $65; Bride and Bridesmaid, $2 to $6; Liberty, $5 to $8. Carnations, Lawson and Enchantress, $3 to $5; ordinary varieties, $2 to $3; Violets, $.50 to $1; special, $1.50. Lilies, $16. Narcissi and Roman Hyacinths, $2 to $3. Lily of the Valley, $4. Asparagus, $50. Smilax, $10 to $12.50.

HOLLY WREATHS
Do you want something really good and willing to pay for it? Of course.
HOW'S THIS?
Bright green, 5 rows of berries, 14 in, $1.50 doz. f.o.b. Phila. Packing free.
DUMONT & CO.
1305 Filbert St., PHILADELPHIA
Case Holly and Lycopodium, Carnations, Roses and Violets.
WHOLESALE ONLY

BERGER BROS.
Wholesale Florists
GALAX, WILD SMILAX
CARNATIONS and ROSES
Store opens 7.30 A.M. Closes 8.00 P.M.
BOTH 'PHONES
1220 Filbert Street
PHILADELPHIA

FRED EHRET WHOLESALE FLORIST
Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.
CHRYSANTHEMUMS until Christmas, including Dorothy Faust, Fancy White.
1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

EVERYTHING IN
CUT FLOWERS
OUR MOTTO } GOOD { STOCK TREATMENT PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA

To Out of Town Buyers
When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try
...BAKER...
THE Oldest Wholesale Florist in Philadelphia
Address: 1432 SO. PENN SQUARE

The Maine Christmas tree cutters say that the demand for small trees has fallen off rapidly for the past four years. Symmetrical trees of large size, such as are now called for, are difficult to find, and the profits of the former years, when neat little 10-ft. trees which are abundant were saleable, are no longer possible.

Providence, R. I., florists complain of the absence of fancy material, such as gardenias and orchids, in their market.

POINSETTIAS

$12.50, $25.00 and $40.00 per 100

WE CONTROL

THE ENTIRE PRODUCT OF THE THORNHEDGE ESTABLISHMENT ON THIS ITEM, AMOUNTING TO OVER

8000 BLOOMS

ORDER EARLY TO PREVENT DISAPPOINTMENT

SAMUEL S. PENNOCK

The Wholesale Florist of Philadelphia

Established 1887 Tel. 167 Madison Sq.

J. K. ALLEN

Always Reliable for Flowers Consigned or ORDERS Given

OPEN 6 A. M.

Write for Holiday Prices on Flowers

106 W. 28th Street New York

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get results beyond your expectation.

FOR FORCING NOW READY

GLADIOLUS

	Per 100	Per 1000
COLVILLEI, The Bride, white	$ .75	$5.50
" rubra, pink	.60	4.75

SPIRAEA Picked Clumps

	Per 100	Per 1000
Japonica	$4.50	$40.00
Compacta multiflora / Astilboides floribunda	5.00	45.00

DEUTZIAS Pot Grown

	Per doz.	Per 100
Lemoinei	$2.50	$18.00
Gracilis	1.50	12.00

HARDY ROSES

ALFRED COLOMB
BARON ROTHSCHILD
BALL OF SNOW
BARON BONSTETTIN
DUKE OF EDINBURGH
GEN. JACQUEMINOT
GEN. WASHINGTON
HERMOSA
JOHN HOPPER
LA FRANCE
MAGNA CHARTA
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MARGARET DICKSON
PRINCE C. DE ROHAN
PAUL NEYRON
ULRICH BRUNER

Strong, two-year, low budded, 10 of one variety in a bundle. Price per 10, $1.25; per 100, $11.00; per 1000, $100.00.

HYBRID TEAS

AMERICAN BEAUTY
TESTOUT
MAMAN COCHET, Pink
GRUSS AN TEPLITZ
MAMAN COCHET, White
KAISERIN

Price per 10, $1.50; per 100, $13.00; per 1000, $120.00.

Arthur T. Boddington

342 WEST 14th ST. :: NEW YORK

AUG. RHOTERT, 26 Barclay St., NEW YORK

Just Received: 100 Bales of extra selected RAFFIA FIBRE
Fresh importation of white, long and strong Fibre in twisted Hampers.

RAFFIA: "G. H. R." Brand

Apply for Wholesale Rates :: :: :: Sold in Bale Lots only of 220 lbs.

ELECTROTYPES for Seedsmen and Florist Catalogues
OF VILMORIN-ANDRIEUX & CO. — PARIS, (FRANCE)
From Stock for Immediate Delivery :: :: Apply for Catalogues
Colored Lithographed Show Plates of Vegetables and Flowers from Seed and Bulbs

For IMPORT ONLY, We Offer in Case Lots of 2500 Crowns:
MULTIBELL and BEROLINA, best early forcing BERLIN Valleys
POLARIS " HANSA, " late " HAMBURG "
CULTURES OF MR. E. NEUBERT-WANDSBEK (GERMANY)
Apply for Wholesale Rates :: Strong, well Rooted Pips, Carefully Assorted, Packed and Shipped

OUTDOOR ART AND CRAFT

The estate of Mr. Moses Taylor, where Robert Beatty is gardener, is fast becoming one of the show places of Mt. Kisco, N. Y. Large plantings of conifers Rhododendron maximum and other shrubbery have been made this fall.

At a meeting of the mayors and officials of the cities and towns in eastern Massachusetts on Nov. 29, an organization was formed under the name of the "Massachusetts Association for the suppression of the gypsy and brown-tail moths." Many gentlemen interested in tree life were present. The executive committee was authorized to attend the meetings of the State Board of Agriculture in the interests of legislation in connection with the moth problem.

NEW YORK, N. Y. We have the most cordial appreciation for the work of the Tree Planting Association. If it were only possible to enlist the earnest workers behind this propaganda in an effort to do something more useful than trying to make trees grow in impossible places and under impossible conditions, it would furnish cause for unmixed congratulations. If one-half the enthusiasm manifested in promoting the idea of tree planting could be enlisted in an effort to save the trees we have, the results would be of vastly greater immediate benefit to the city. Thousands of fine trees in the parks and public places in New York are dying of neglect. They are in this condition because the persistent effort of experts of the Park Department to secure an adequate appropriation for their care in a form in which it cannot be diverted to the pay roll of labor for other purposes (chiefly the satisfaction of the district leaders) does not have and has never had the support of an organized public opinion. The item has come up year after year in the Park Department budget, and has been stricken out by the Board of Estimate and Apportionment because no one appeared to speak for it or to show the slightest interest in it.

A good deal less than the cost of one tree in one of the tenement-house districts would have multiplied for distribution among public-spirited citizens prints of some instructive photographs lately taken in Central Park showing the trees with their roots completely denuded, perishing from inability to draw nutrition from an impoverished and exhausted soil. They would have shocked into a desire to do something, every lover of trees. It is admittedly a good thing to plant a tree where one has a chance to grow; but it should need no argument to show that it is a better thing to save a tree dying from neglect when it represents the growth of many years and is unreplaceable in something like a quarter of a century under the most favorable conditions. During the past year twelve of the beautiful elms on the Mall have died, leaving ugly gaps in the lines which cannot be filled during the lifetime of many of those who remember their planting. Within the next twelve months probably as many more will die, unless that is done for them which saved the Prince of Wales Elm. These are very serious facts, and their significance will not be appreciated until just such a body of citizens as the Tree Planting Association wakes up to the fact that it has here a neglected duty which none can perform so well. — *New York Times*, Nov. 12, 1904.

At a business meeting of the Massachusetts State Board of Agriculture on Dec. 6, it was voted to adopt the report of the gypsy moth committee of the State Board as the report of the Board to the incoming legislature.

The report opens by saying that since the stopping of appropriations in 1900 the work of the committee has been confined to observing and recording the increase of the moth, informing local authorities of the appearance of new colonies and advising citizens concerning the best means of combating outbreaks of the gypsy and brown-tail moth.

Taking up the condition of the various infested cities and towns, the committee says that a careful survey of the territory shows an alarming and remarkable increase of infestation and damage.

On the parasite question the report is somewhat noncommittal, but the committee considers it highly desirable that an investigation of the gypsy moth in Europe should be made, particularly with reference to parasites.

Taking up the question of damage from the gypsy moth the past season as against that at the close of the work in 1900, the committee says that the weak woodland colonies have increased by leaps and bounds. Prof. Marlatt says in his report: "During the years 1903–1904 the gypsy moth has made extraordinary progress and defoliation or stripping was found which I had never seen before in the gypsy moth region and undoubtedly many times greater than in the worst of the earlier years of gypsy moth damage."

In closing, the committee says: "In view of the alarming conditions above reported . . . with the certainty of immense increase of damage and expense with the further spread of the insect, your committee believes that the time has come when some concerted and vigorous action should be taken looking to the control of this pest."

The committee further states that it believes extermination was possible at the time the work ceased, but that it is no longer. The best that can be hoped for is control. They recommend that national aid should be sought, and also that the state make a large appropriation, extending over a number of years, with a minimum and maximum amount to be expended in any one year, work to be done against the insect at all times and in all forms.

Have you anything to sell? You are on the wrong track if you don't try some advertising in HORTICULTURE.

What do you need? You will find it advertised in these columns. If not, advise us.



A NEW DEPARTURE in growing

Ornamental

TREES and SHRUBS

Having established an extensive Nursery for the special purpose of supplying Public Parks and Avenues, Cemeteries and Estates with

LARGE AND ESPECIALLY WELL GROWN CONIFERS, RHODODENDRONS, TREES AND SHRUBS

Suitable for immediate effects, which have been so frequently transplanted as to render their further transplanting and future success a practical certainty, we beg to announce that we carry the largest and most complete assortment of the finest formed and best grown specimens in America, which are fully described in the

COTTAGE GARDENS NURSERY BOOK

which is sent free to all who will send us their address.

COTTAGE GARDENS COMPANY, Inc., Queens, New York

THE KING OF ALL CARNATIONS

THE NEW SCARLET SEEDLING ROBERT CRAIG

Robert Craig (Ward)

has been awarded the following honors:

Preliminary Certificate	*American Carnation Society*
Special Diploma	*American Institute of New York*
First Class Certificate of Merit	*Mass. Horticultural Society*
First Class Certificate of Merit	*Penn. Horticultural Society*
First Class Certificate of Merit	*New York Florists' Club*
Craig Cup, for best undisseminated seedling	*Philadelphia*
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The largest, strongest stemmed, most vigorous, healthiest growing, most fragrant, and the best FANCY COMMERCIAL SCARLET CARNATION produced to date. Ranks with Enchantress and Fiancee, having defeated the latter variety in all competitions at Philadelphia.

The Ideal

Christmas Carnation

An Enormous Bloom

Just the color of the Christmas Holly Berry

An Easy Doer — Anybody can Grow It

Having already entered orders for 100,000 cuttings for delivery season of 1906, we are still booking orders subject to buyer's cancellation if dissatisfied with variety at any time up to December 1st, 1905.

PRICES:

$2.50 per doz	$12.00 per 100	$100.00 per 1000
2500 lots . . .	at $95.00 per 1000	
5000 " . . .	90.00 " "	
10,000 " or more .	80.00 " "	

Send your orders early to... **C. W. WARD, *Originator*, Queens, N. Y.**

COTTAGE GARDENS COMPANY, Inc.

DREER'S DOUBLE PETUNIAS

Have long been known for superior quality; this year's stock is no exception, and we now have a large supply in strong 2 1-4 inch pots, plants which if potted up now will quickly furnish quantities of cuttings. These we offer in fifteen distinct varieties for immediate delivery at 60 cents per dozen; $4.00 per 100; $37.50 per 1000.

SEEDS. Saved at Riverton, the finest in existence. DOUBLE FRINGED, 75 cts per 500 seeds; $1.50 per 1000 seeds. SINGLE FRINGED, 50cts. per pkg.

HARDY PLANTS FOR FORCING

We are carrying a large stock of the following, a specially selected grade for forcing

AZALEA MOLLIS

For early and late forcing Azalea Mollis is rapidly gaining favor, easily forced at a minimum cost for heat and labor. They are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, $4.50 per dozen; $35.00 per 100.

DEUTZIAS FOR FORCING

Strong two-year-old, field-grown plants suitable for 6-inch pots.

	Per doz.	Per 100
Gracilis Rosea	$1.00	$8.00
GracilLis Lemoinei	1.00	8.00

FORCING LILACS

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, $6,00 per dozen: $45.00 per 100.

RHODODENDRONS FOR FORCING

These are being used more extensively every season, and this year with Easter at such a very late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy, well shaped plants 16 to 18 inches high, covered with buds, $9 00 per dozen; $70.00 per 100. Larger plants 20 to 24 inches high, fine specimens, $11 00 per dozen; $90.00 per 100.

NOTE. The prices given above are strictly for the trade, and retail consumers will not be supplied at these prices.

HENRY A. DREER, Phila., Pa.



REPORT ON HOLIDAY PLANTS

Philadelphia reports azaleas as in fine demand, S. Mardner, Vervaeneana, Apollo, Pauline Mardner and Hexa are in the lead. A small number of the Deutsche Perle can be sold.

Araucarias are not in as good demand as formerly but a good many are being sold, compacta robusta being the best. The new white begonia, Turnford Hall, is a gem, and although white is not much of a Christmas color, it sells on account of its great beauty.

English hollies are selling better this year because they are being sent over in better condition and with more berries than usual. Well-berried plants of Skimmia japonica are seen and are a welcome addition to the list. Solanums in the better varieties are in good demand. The scarlet berried aucubas would take high rank as Christmas subjects if they could be imported in good shape and well-berried, but much of the stock sent over from Holland is very inferior in all respects.

Ardisias lead everything as berry-bearing favorites. They are now so well-grown and so durable as to be exceedingly satisfactory. Some of the Philadelphia growers are growing poinsettias splendidly, dwarf plants with enormous spread of head, in pots and small pans. Done this way, poinsettias are hard to beat for popularity.

Combinations of bright dracænas, crotons, etc., with ferns and other green-foliaged subjects, are finding an increased appreciation from buyers. When started by the growers a month or two before Christmas they give better satisfaction than if filled by the florist just before delivery. The Baby Rambler rose is likely to be used next Christmas in small, well-bloomed plants for basket work. Robert Craig says that all indications point to a record-breaking plant trade this Christmas and New Year's.

Philadelphia Wholesale Plant Market

Kentia Forsteriana, 6-in. pot, $1 to $1.25; 7-in., $2 to $2.50; 8-in., $3 to $3.50; larger plants, $5 to $20 each. Kentia Belmoreana, 6-in. pot, $1.25 to $1.50; 7-in., $2.50 to $3; 8-in., $3.50 to $5; larger plants, $7.50 to $25. Areca lutescens, 6-in. pot, $.75 to $1; 7-in., $1.50 to $2.50; 8-in., $3 to $4; larger plants, $5 and upwards. Phœnix rupicola, 6-in. pot, $2 to $3; 7-in., $5 to $7.50; larger plants scarce. Cocos Weddelliana, 3-in. pot, $.15 to $.20; 4-in., $.35 to $.50; 5-in., $1; larger plants scarce. Livistonia rotundifolia, 3-in. pot., $.20; 4-in., $.50; 6-in., $1. Dracaena terminalis, 5-in. pot, $.50 to $.75; 6-in., $1; well-grown plants in good demand. Dracaena fragrans, 6-in. pot, $1; 7-in., $1.50; 8-in., $2.50. Dracaena Sanderiana, 3-in. pot, $.12 to $.15; 6-in., $1 and upwards, 5 plants in pot. Begonia Lorraine, 5-in., $.75; 6-in., $1; 12-in. pans, $2.50; in good demand. Poinsettia, 4-in. pot, $.20 to $.25; 5-in., $.25 to $.35; in 12-in. pans, $2.50 to $3. Ardisia, 6-in. pot, $1.50 to $2.50; 7-in. $3 to $4; very good demand. Orange, 6-in. pot, $2 to $2.50; 7-in., $3 to $4; in good demand. Chinese primrose, 5-in. pot, $.20; 6-in., $4 per dozen; in good demand. Cyclamen, 5-in. pot, $.50; 6-in., $1 to $1.50; in good demand. Araucaria excelsa, 5-in. pot, $.75 to $1; 6-in., $1 to $1.50; Araucaria compacta, 5-in. pot, $1; 6-in., $1.50 to $2; 7-in., $2.50 to $4.

Chicago Jottings

A. Fuchs is recovering from a severe sick spell.

William McKaig, buyer for the George Wittbold Company, was recently married to Miss Hilda Norborn of Burlington, Ia.

The Benthey-Coatsworth Company has harvested a fine crop of their new aster, and the seed will be distributed to the trade this winter.

E. Wienhoeber Company shipped a Christmas order from Chicago to Dresden, Germany. The arrangement was composed of California Pepper Berries.

F. Lautenschlager of 2023 N. Marshfield Ave., is headquarters for California Pepper Berries. The stems are cut up to three feet in length and are covered with bright coral fruit.

ORCHIDS

We are strictly specialists in ORCHIDS. We collect, import, grow and sell them EXCLUSIVELY. We have them in all stages, freshly imported, semi-established and established. Send for catalogue of imported Orchids just received in fine condition. We have CATTLEYA MENDELII, Laelia Anceps, Oncidium Tigrinum, Oncidium Papilio, etc. Write for special list No. 14. Live Moss, selected Peat and Orchid Baskets in all sizes on hand.

LAGER & HURRELL, SUMMIT, N. J.

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WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

FOR RENT—Low price if taken immediately—Greenhouse property in Pittsfield, Mass. Consisting of three houses, each 100 ft. long, 3 acres of land or less, part of dwelling-house, 2800 carnation plants in one house, without charge.
Address "A." Care HORTICULTURE, Boston.

FOR SALE—One of longest established rose-growing establishments within five miles of Boston. For particulars, inquire at office of HORTICULTURE, 11 Hamilton Place, Boston.

News Notes

Mr. Julius Roehrs is very sick with bronchial pneumonia at his home in Rutherford, N. J.

F. Macrae exhibited his new white carnation. It scored 91 points and received a certificate of merit.

Warren B. Craw, treasurer of the Lord & Burnham Co., was married December 1, to Miss Lindburg, at Indianapolis, Ind.

E. G. Hill was called home from New York to Richmond, Ind., by a telegram announcing the impending death of his father-in-law, Mr. Stuart.

The Rhode Island Gardeners' and Florists' Club held its regular monthly meeting on December 8, and voted to hold an annual banquet at the January meeting.

William J. Stewart of Boston has been appointed by President Montgomery as Secretary of the American Rose Society, to fill the unexpired term of Leonard Barron, who has resigned.

J. T. Butterworth of South Framingham, Mass., is dangerously ill. An operation was performed a few days ago and news of a successful outcome is anxiously awaited by many sympathizing friends.

"Benthey's White" will probably be the most extensively grown aster for florists' use next season. Flowers 4 to 5 inches across and stems 30 to 40 inches long. The blooms rival the chrysanthemum.

Mr. and Mrs. Alex. S. Burns of Woodside, N. Y., have now settled their suit against the railroad company for injuries sustained by Mrs. Burns, on terms entirely satisfactory to them. The judgment of the Supreme Court in their favor was affirmed with costs.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

A farmer had a seeder for the sowing of his seed.
'Twas a seeder made of cedar and, said I, "Pray is there need
Of a seeder made of cedar? Said the farmer, "Yes, indeed!
I hev never seed a seeder, sir, that I'd concede the speed
To exceed a cedar seeder for the seedin' of the seed." — *Life.*

Thomas J. Grey was a visitor to New York this week.

In Boston: William E. Sanderson, representing J. M. Thorburn & Co., New York.

A prominent seedsman asserts that from November 1 until the last of February he loses weight steadily under the strain of the mental work of this seemingly dull period.

Otto Katzenstein & Co., Atlanta, Ga., and New York City. A very comprehensive list of American seeds and plants. Notable for scientific accuracy and will prove a very useful reference book for those interested in hardy native plants, shrubs and trees.

Sensible advertising is an investment not an expenditure.

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NICOTIANA SANDERAE
Silver Medal.—Mass. Horticultural Society, 1904.
Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.
Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets from seedsmen throughout the United States. **Full particulars from**
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SEEDS For the Florist.
Catalogues Mailed Free.
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..SEEDS..
Farm, Garden and Lawn Supplies
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You have some spare room now, fill up with Callas, Gladioli the Bride, Freesias, etc. See below for some timely bargains.

		Per 100
CALLAS, best California grown, regular	$5.00 size, at	$3.00
" " " " "	9.00 " at	6.00
" " " " "	12.00 " at	9.00
FREESIAS, Bermuda, pure white, 1-2 to 3-4	1.00 " at	.50
" Mammoth French	1.25 " at	.75
PEONIES, officinalis rubra, 2 to 5 eyes,		7.00
" " rosea, " "		9.00
" " alba, " "		14.00
" Festiva maxima (French stock, true) 2 to 5 eyes,		35.00
" Chinese, 10 choice named, 2 to 5 eyes,		14.00
OXALIS, Grand Duchess, white,		1.00
" " " rose,		1.00
" " " lavender,		1.00
ALLIUM NEAPOLITANUM		.50
GLADIOLI, "The Bride," (for forcing),		.60

We have also some named Tulips, Lily of the Valley Pips, Spirea, etc. Particulars on application.

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Lily of the Valley Cold Storage — In case lots of 3000 at $25.00 a case

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Rosa Rugosa	2 year, 1½ to 2 ft.,	30.00
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The Farquhar Rose	1 year old,	90.00
The Farquhar Rose	2 year old,	150.00

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We have a surplus of strong 2 year plants of

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in 6 inch pots, recently potted up and heeled in, which we offer for immediate delivery as follows:

Per doz., $3.00
Per 50, 10.50
Per 100, 20.00

Also, a lot of lighter weight 2 year at $2.50 per doz., $9.50 per 50, $17.00 per 100; and 1 year at $2.00 doz., $8.00 per 50, $15.00 per 100.

All in 6 in. Pots and Heeled.

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LILY OF THE VALLEY WILL FORCE EASIER and better than the NEWLY IMPORTED STOCK — till the latter has had a thorough freezing. We have both — but recommend the COLD STORAGE VALLEY for forcing for at least a further six weeks.

¶ We are now booking orders in advance, and are prepared to ship on the shortest notice, the best grade of **LILY OF THE VALLEY PIPS**, in any quantity from 100 to 100,000 placed in **Cold Storage** last **December**. ¶ No special treatment required. The pips will flower naturally in three or four weeks in a temperature of 60 to 65 degrees Fahrenheit. Your propagating bench is just the place for them.

Savannah, Ga., Oct. 4, 1904.
Messrs. Clucas & Boddington Co.
New York City
Gentlemen:— Please send me by Adams express as soon as you can, one thousand (1000) Cold Storage Valley same as last. The last were very good. * * * You can send the balance of my order, thousand every week, until you have shipped the whole 10,000.
Yours truly, JOHN WOLF.

Selected, 3-Year-Old Pips from Cold Storage

Per 100, $2.00; per case (2500), $30.00; per 1000, $12.50. 250 at 1000 rates

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Mignonette. Allen's Defiance
2½ in pots, 2 cents each
Parlor Joy
Good vines. 3 in pots, 2 cents each
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Send for our complete wholesale price list of new crop Flower Seeds *Now Ready*

Henry F. Michell Co., 1018 Market Street, **Philadelphia**

Mention HORTICULTURE when you write.

Chicago Wholesale Cut Flower Market

For week ending December 13, 1904

There has been a considerable shortage of American Beauty roses for some days past and prices held stiff for anything in the higher grades. A look among the local greenhouses would indicate that Bride and Bridesmaid will be the heaviest cut in roses for the holidays. Uncle John, as seen at Reinberg's, is on in full crop. There is also a good supply of Chatenay. Meteor will be relied upon to fill orders in its color, as Liberty is very scarce. The extra long stemmed American Beauty gives evidence of being in full supply by Christmas, but medium lengths will be scarce. There is an abundance of Lawson in sight among the carnation growers, closely followed by Enchantress. All white varieties are plentiful, and bulbous stock, with the exception of lilies, is beginning to accumulate. This week the price of holly has advanced 25 to 50 cents per crate. There is a big supply of wild smilax in Chicago.

American Beauty, special and fancy, $40 to $50; Nos. 1 and 2, $15 to $25; Bride and Bridesmaid, $6 to $15; Liberty, $4 to $12; other varieties, Chatenay, $4 to $10; Meteor, $3 to $8; Uncle John, $3 to $12. Carnations, Lawson, $3 to $5; Enchantress, $3 to $6. Violets, single, $.75 to $1; double, $.75 to $1.50; special, $1.50. Lilies, very scarce at $20. Callas in light supply at $16. Narcissi and Roman Hyacinths, slow at $2 to $3. Asparagus, $50. Smilax, $12.50 to $16.

St. Louis Wholesale Cut Flower Market

The demand for cut flowers is generally quiet. Stock is fairly plentiful and of good quality. This is true of all classes of roses excepting the higher grades of American Beauty.

St. Louis Wholesale Prices

American Beauty, fancy and special, $35 to $50; inferior grades, $6 to $25. Bride and Bridesmaid, best, $5 to $6; ordinary, $4; Liberty, best, $6 to $8; ordinary, $4 to $5; Golden Gate, Perle and Ivory, best, $5 to $6; ordinary, $4. Carnations, Lawson, $4 to $5; Prosperity, $5; Enchantress, $5 to $6; ordinary varieties, $2 to $3; fancy grades, $4. Violets, single, $.50 to $1; double, $1 to $1.50. Narcissi and Roman Hyacinths, $2.50 to $3. Asparagus plumosa, Strings, $35 to $50; Sprengerii, $1 to $3. Smilax, $15.



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Lily of the Valley Pips

Special quotations will be made on 50,000 and over.

From Cold Storage: HAMBURG 3-YEAR-OLD PIPS (one year in cold storage) $1.25 per 100, $10.00 per 1000.

For Immediate Forcing: HIGH GRADE 3-YEAR-OLD BERLIN PIPS $13.00 per 1000, $31.00 per case (2500).

Large Importation Just Received: HIGHEST GRADE 3-YEAR-OLD BERLIN PIPS $12.00 per 1000; $23.00 per case (2000).

Can arrange to keep in cold storage here if desired.
Send for Our Surplus Bulb List.

JOHNSON & STOKES, 217 & 219 MARKET STREET, **PHILADELPHIA, PA.**

Boston Wholesale Flower Market

Flowers of all kinds are going rather slowly this week, buyers devoting their attention mainly to Christmas greens, all classes of which sell well. Leading all, except holly, is the Southern boxwood which Welch Bros. are making a specialty of and which is called for now in barrel lots by even the country florists. Roses show considerable improvement during the past few days. American Beauty and Edgely are coming in in elegant form. Carnations are abundant, especially the white varieties, which are inclined to accumulate in dealers' hands.

Boston Wholesale Prices to Dealers, in Hundred Lots

As reported Thursday, Dec. 15, 1904

American Beauty, best, $25 to $50; ordinary, $6 to $20; Bride, Bridesmaid, etc., $3 to $16, according to grade. Violets, $.75 to $1. Lily of the valley, $3 to $5. Narcissi and Roman hyacinths, $1 to $2. Lilies, $12.50 to $16. Poinsettias, $25 to $35. Carnations, fancy, $3 to $4; ordinary, $1 to $2. Smilax, $8 to $12.

Louisville, Ky., Wholesale Cut Flower Market

Business conditions were entirely satisfactory through the week, there having been quite a few decorations, using up a lot of surplus stock. Chrysanthemums are about over with. The season has been particularly good for them. Carnations were in good demand, and the quality remained very good; however, the supply is far from being adequate. The local market is furnishing some roses of unusually good quality, and the demand is very good. They are plentiful. Good mignonette can be seen and sells well. Violets are selling very well; the quantity is satisfactory, and the quality usually good. Green goods are a little short, especially smilax.

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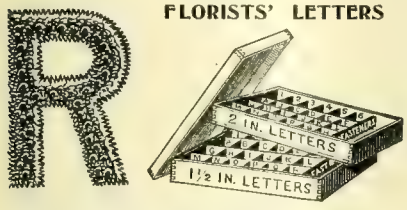
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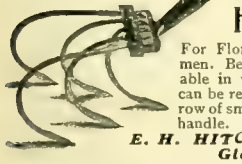
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Request. When writing to these advertisers, kindly give credit to HORTICULTURE.

List of Patents Issued November 1, 1904

773,616, Fertilizer-Sower, James Willson, Porterville, Cal.

773,842, Automatic Reversing Attachment for Fertilizers-Distributers, Henry A. Zobrist, Highland, Ill.

773,885, Fruit-Pitter, John A. McCune, Santa Cruz, Cal.

List of Patents Issued November 15, 1904

774,793, Fruit Picker, Henry J. Sharp, Columbus, Ohio.

774,988, Device for Keeping Flowers on Graves Alive, Louis Maurer, Brooklyn, N. Y.

775,015, Fruit Grader, Thomas Strain, Placenta, Cal.

List of Patents Issued November 22, 1904

775,649, Pruning Hook, Charles Gregory, St. Louis, Mo.

775,701, Hoe, John J. Coston, Eupora, Miss.

List of Patents Issued November 29, 1904

775,985, Machine for Manufacturing Artificial Flowers, Vines, etc., Harry J. McKain, Alleghany, Pa.

776,246, Sodding Composition and Method of Making Same, Edwin A. Kanst, Chicago, Ill.

List of Patents Issued Dec. 6, 1904

776,828, Pruning Implement, John Earnhart, Santa Paula, Cal.

776,844, Sod-Cutter, John Hudlemeyer and Thomas S. Rippey, Liberty, Mo.

776,961, Fruit-Picker, LeGrand Terry, Waverly, N. Y.

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Should reach us by Monday, December 19, if possible, or Tuesday, December 20, at latest. In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment.



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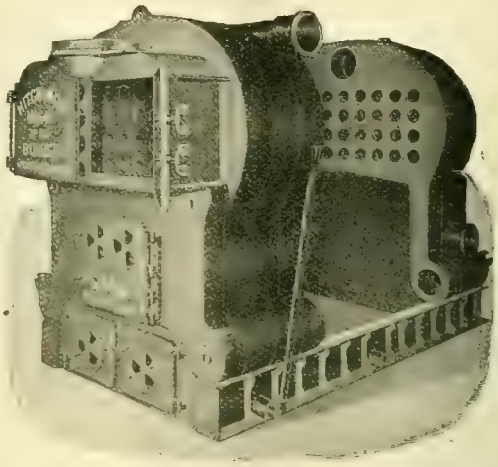
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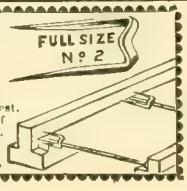
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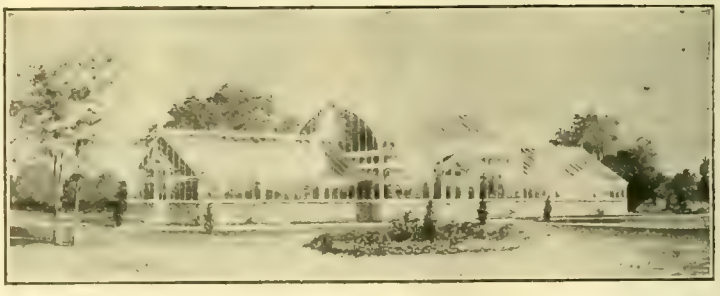
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Our PIERSON BOILERS have established a reputation for economy. We would like to tell you about them. Let us send you particulars and testimonials.

Write to-day for prices.

HORTICULTURE

Vol. I DECEMBER 24, 1904 No. 4



FERN HOUSE

John T. Morris Estate, Chestnut Hill, Pa.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

CUT FLOWERS IN FANCY GRADES

Regular and Special Qualities
of all desirable Holiday Stock

SHIPPED AT WHOLESALE MARKET PRICES

Orders from out-of-town florists for flowers loose or arranged, TO BE DELIVERED IN NEW YORK CITY OR ENVIRONS, will have careful attention and will be filled in best style in *Retail Department.*

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Beauties and Liberties
For New Year's

$12.50, $25.00 and $40.00 per 100

Order Early to Prevent Disappointment

SAMUEL S. PENNOCK

The Wholesale Florist of Philadelphia

PALMS, FERNS and DECORATIVE PLANTS

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc.

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PERKINS STREET NURSERIES

ROSLINDALE - BOSTON, MASS.

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Never before in the history of Florists' Supplies has such a splendid assortment of Artistic and Useful Material been distributed as we have shipped this year to Christmas Buyers.

NOW FILL UP AGAIN!

We have NEW YEAR'S BASKETS in endless array of beautiful shapes and choice material; BRIDESMAIDS' BASKETS, FERN DISHES, POT COVERS, VIOLET HOLDERS, FOLDING SCREENS, WATERPROOF PAPER, Vases and Flower Dishes of Exquisite Design, and other salable goods without limit. LET US HEAR FROM YOU

H. BAYERSDORFER & CO. 50-56 No. 4th Street PHILADELPHIA, PA.

HORTICULTURE

VOL. I | DECEMBER 24, 1904 | NO. 4

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, EDITOR AND MANAGER

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Application Pending for Entry as Second-Class Matter.

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¶These two varieties will produce more first class salable flowers than any aster now in commerce. ¶They are branching varieties, producing flowers from three to five inches in diameter on fine, stiff stems from thirty to forty inches in length, with extra heavy foliage. ¶They are pronounced by both grower and consumer the finest asters ever seen in Chicago, and were the favorite asters in the Chicago and St. Louis markets the past season, and wherever shown they were termed the best ever.

PRICE LIST:

Trade Package, white or pink, $1.00 **1-4 oz. white or pink, $2.50**
1-2 oz., white or pink, . . 4.50 **1 oz., " " " 8.00**

For further information write

The Benthey-Coatsworth Co., Wholesale Florists

35 RANDOLPH STREET, CHICAGO, ILL.

SOW CYCLAMEN NOW

In order to get Large Young Plants
to Bloom Next Fall and Winter

Farquhar's Giant Cyclamen

Acknowledged to be the Best Strain offered

Farquhar's Giant Crimson
Farquhar's Giant Pink
Farquhar's Giant White

Packet, 75c.; 100 Seeds, $1.50; 1000 Seeds, $12.00

PENN. AND HOMEWOOD AVE.
PITTSBURG, PA., Jan. 11, 1904

Mr. David Fraser, gardener to H. C. Frick, Esq., writes — I wish you could see the house of Cyclamen I have from your seed. Out of 500 plants there is scarcely a poor one in the lot; some of the plants are carrying 40 to 60 large flowers. Every one says they are the finest Cyclamen they have ever seen.

R. & J. FARQUHAR & CO.

6 and 7 South Market Street, BOSTON

We are now booking orders for selected

Rooted Carnation Cuttings

Can ship after December 1st, or any time wanted

	Per 100	Per 1000
WHITE		
LADY BOUNTIFUL	$4.00	
VESPER	4.00	$35.00
QUEEN	2.50	20.00
QUEEN LOUISE, GOV. WALCOTT, BOSTON MARKET	2.00	15.00
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ENCHANTRESS	3.50	30.00
LAWSON, FAIR MAID	2.00	15.00
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Also Grafted Roses on Strong English Manetti Stock

BRIDESMAIDS, GOLDEN GATE, BRIDES, IVORY, CHATENAY — $12.00 per 100, $100.00 per 1000
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10 CENTS EACH

S. J. REUTER, Westerly, R. I.

DREER'S DOUBLE PETUNIAS

Have long been known for superior quality; this year's stock is no exception, and we now have a large supply in strong 2 1-4 inch pots, plants which if potted up now will quickly furnish quantities of cuttings. These we offer in fifteen distinct varieties for immediate delivery at 60 cents per dozen; $4.00 per 100; $37.50 per 1000.

SEEDS. — Saved at Riverton, the finest in existence. DOUBLE FRINGED, 75 cts. per 500 seeds; $1.50 per 1000 seeds. SINGLE FRINGED, 50cts. per pkg.

HARDY PLANTS FOR FORCING

We are carrying a large stock of the following, a specially selected grade for forcing

AZALEA MOLLIS

For early and late forcing Azalea Mollis is rapidly gaining favor, easily forced at a minimum cost for heat and labor. They are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, $4.50 per dozen; $35.00 per 100.

DEUTZIAS FOR FORCING

Strong two-year-old, field-grown plants suitable for 6-inch pots.

	Per doz.	Per 100
Gracilis Rosea	$1.00	$8.00
Gracilis Lemoinei	1.00	8.00

FORCING LILACS

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, $6,00 per dozen: $45.00 per 100.

RHODODENDRONS FOR FORCING

These are being used more extensively every season, and this year with Easter at such a very late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy, well shaped plants 16 to 18 inches high, covered with buds, $9.00 per dozen; $70.00 per 100. Larger plants 20 to 24 inches high, fine specimens, $11 00 per dozen; $90.00 per 100.

NOTE. The prices given above are strictly for the trade, and retail consumers will not be supplied at these prices.

HENRY A. DREER, Phila., Pa.



SPECIAL OFFER

JAPAN LONGIFLORUM LILIES

7–9 inch Bulbs

300 to the case at $3 per 100, $27 Per 1000.

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Schlegel & Fottler Company announce that they have secured the entire building at 26 and 27 South Market St., Boston, a part of which they have occupied for many years, and in future their principal salesroom will be on THE STREET FLOOR.

WM. HAGEMANN & CO.

WHOLESALE IMPORTERS OF GERMAN LILY OF THE VALLEY

55 Dey Street - New York

Thorburn's Bulbs

Areca Lutescens Seeds

$3.00 per 1000

Lily of the Valley, pips and clumps

Lilium Auratum and Speciosum, all sorts

The Great New Potato

NOROTON BEAUTY

All who issue catalogues should not fail to include it. Descriptive circular on application.

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Lily of the Valley — Cold Storage — In case lots of 3000 at $25.00 a case

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention ∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL.

WRITE OR TELEGRAPH YOUR
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FOR CHICAGO AND VICINITY TO
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105 WABASH AVE., CHICAGO

We execute all our correspondents' orders with greatest care and at lowest rates. Trade courtesies extended.

ORDERS BY WIRE OR 'PHONE PROMPTLY ATTENDED TO BY
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Automatic 1038
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NEW YORK CITY

Prepared to fill orders from out of town florists for delivery to residence or steamer

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In market at all seasons
AS A BUYER OF
NOVELTIES AND CHOICE PRODUCTIONS IN PLANTS, FLOWERS OR BASKETS

ADDRESS
Fifth Avenue, cor. 58th Street
NEW YORK CITY

KLUNDER

HENRY E. KLUNDER

The name that made flowers famous.
Allow me to fill your orders.

STRICTLY UP TO DATE
33 State St., Chicago, Ill.

In planning your advertising for the coming year, remember that HORTICULTURE proposes to work overtime the season through to prove itself the best medium in the country.

DECORATIVE ART



A wreath of galax leaves can be taken out of the ordinary by a judicious use of foliage. In this case we used the red galax leaves on a crescent frame, Adiantum, Farleyense, begonia leaves, sumac heads, and a variety of ferns.

H. H. Battle,

Hydrocyanic Fumigation

Probably no other factor as potent in the matter of aiding the cultivator in the attaining of the best results has been given him during the past decade, as the cyanide system of killing insect pests.

It is admitted that until within the past few weeks its use was not considered safe by the writer, but the reason is freely given that others may become converted likewise.

When first advocated as an insecticide, it was tried here and condemned as too risky to the operator, and equally so to the plants, but at that time it was not figured out properly *how little* would do the work, and it was used too strong, with dire results.

Now, however, it is found that 1 ounce of the cyanide to 1,000 cubic feet is sufficient to kill all insect pests and also the lowly toad that creeps under the benches — in fact, everything that breathes.

One would think when trying to sponge off scale insects from palms, orchids or crotons that they had no vulnerable point, but there must be a breathing place, for all are easily killed at the first application of the gas. Mealy bugs also are killed, but their eggs survive, and a new crop will follow that needs another dose when hatched out.

The only plant that has been injured thus far is tradescantia that grows under the benches. This plant seems very tender and easily injured; a few other subjects were also, but this was due to their being directly exposed to the steam of the acid when hot. This, it appears, should always be guarded against.

In using hydrocyanic gas in winter it is of course impossible to air the house in the morning before going into it, owing to the cold weather. This is

avoided by using the gas at a lower strength, at dark, and by morning it is safe to go in the house. It is possible, however, that in summer time when all plants are in active growth, injury may follow after being exposed to it for so long. This we have yet to prove, but it will be an easy matter then to ventilate.

It is said that one inhalation of hydrocyanic gas injures the lungs so that they never recover from it. This will bear remembering, for it is unfortunately too true that familiarity often engenders carelessness. The operation should always be performed by some responsible person, the house itself secured against any other entering accidentally, and if the acid and cyanide be kept out of the reach of the irresponsible, no harm can follow, and it appears at present writing that an agent is at hand that will make mealy bugs and all other insect pests little to be feared.

If we only could discover a factor equally effectual for the treatment of plant diseases, there would not be much money in the florist's business.

E. O. Orpet.

A New Hardy Grape



The accompanying photograph is of a new hybrid grape, that has so many good qualities that I believe that many of the readers of HORTICULTURE may be interested in its history. The cluster from which the photograph was taken was fourteen inches long; the vine that bore the cluster is one of a group or family produced by combining the following species, viz., Vitis labrusca (our native Fox grape), V. vulpina (our native Frost grape), V. rupestris (a native of Texas and Indian Territory), V. lincecumii (also from Texas and Indian Territory), and V. vinifera (the European, or hothouse grape); combining in its makeup, the best two northern grapes with the best two southern and one of the hardiest and earliest of the European (the White Frontignan). The vines produced from the above combination are named or designated as the Five Nations Group, and the subject of this article is No. 6 of that Group. It is of fine quality, hardy, prolific, and exceedingly vigorous. It is a noteworthy fact that the blood of the southern grapes seems to add vigor and healthfulness to the offspring of the combination, making of them vines that should be successfully grown over a large extent of territory.

R. B. White

Mr. White has no vines for sale.

Rochford's Market Cucumber



Although I grow Rochford Market, Telegraph, and Duke of Edinburgh, and especially like the old Telegraph as it makes the finest specimens for exhibition purposes, yet my favorite is Rochford's, as it will stand two or three degrees cooler treatment, bears longer, and is the best cropper of the English varieties I have tried.

I sow the seeds in 2½-inch pots. When they are ready for planting out, I plant in mounds two feet apart and, as the roots spread, gradually add more soil; when they are strong enough I give a top dressing of cow manure. The best top dressing I have tried is the sun-dried cow droppings you can get where the cow grazes, broken up into 1 and 2-inch pieces. After the roots get all through it, give a watering with liquid cow manure once a week; if the roots show much on the surface, give them a little sprinkling of soil; keep up a moist temperature 65 to 70 degrees at night, and 70 to 80 degrees in the day.

J. Thomas

THREE COMMERCIAL WINNERS



Adelia Madonna Majestic

J. Breitmeyer & Sons are much pleased with the demand that they find for their two new commercial white chrysanthemums, Adelia and Majestic, illustrations of which are herewith presented. Madonna is a handsome pink one. These are all mid-season varieties and are decidedly in the profitable commercial class.

Destruction of Enfield Hall

The news of the destruction of Enfield Hall, Staffordshire, Eng., by fire November 26, will be noted with regret not only by the many graduates from the gardens of that fine estate who are now located in this country, but by lovers of the beautiful in architecture and landscape everywhere. The fire completely gutted the castle and lasted some eight or nine hours. Only a small remnant of the priceless collection of furniture, pictures, and historical relics was saved. Edwin Lonsdale, Stephen Taplin, John Savage, John Burton, John Thatcher, William Thatcher, and many others we do not recall for the moment, are among those graduates of this historical estate who have achieved distinction in this country.

A Practical Help

We hope you will like HORTICULTURE and recommend it to your friends in the trade. Send in their subscription now to insure complete file from first number. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

HORTICULTURE PUBLISHING CO.,
11 HAMILTON PLACE,
TELEPHONE, OXFORD 292. BOSTON, MASS.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

Next Comes Ye Editor

Subscriptions for the coming year have already been received from a multitude of readers who take this practical way of showing their approval of HORTICULTURE. We would like to hear in like manner from as many more before the new year begins. *Do it now.*

Parties mailing communications to HORTICULTURE are respectfully requested to be careful to give the correct address, 11 Hamilton PLACE. The receipt of several important communications has been delayed through their being incorrectly addressed to Hamilton Street, which is in an outlying district of Boston.

Those two scourges, the gypsy and brown-tail moths, although as yet mainly local in Massachusetts, are being multiplied and disseminated so rapidly notwithstanding all efforts at repression, that it is only a question of a short time before they will reach localities far remote from the section now afflicted. Federal money only will avert widespread disaster. The bills introduced by Congressman Roberts should have been promptly passed, and all efforts directed against the spread of the pest by public-spirited men and scientists should have enthusiastic support from every individual and organization. Write to your congressman and the senators of your State, urging them to take an interest in this all-important subject and to use their influence for the passage of repressive measures. The longer decisive action is deferred, the heavier must the sacrifice be. The problem is vastly more important than any that this country has had to face in many years.

The annually recurring complaint about carnations "going to sleep" is again heard. This is a phase of the carnation's status, of infinitely greater importance at the present time than the question of size, length of stem, or any of the other points that go to mark progress in carnation development Growers seem all at sea on this subject, notwithstanding earnest efforts to reach an explanation of the peculiarity which, although unquestionably more pronounced in some varieties than others, yet appears to affect most varieties to a greater or less degree, with all growers some of the time and with some growers all of the time. While a common cause cannot be found thus far, it will be generally acknowledged that excessive feeding for the purpose of promoting rank growth and size, permitting flowers to remain on the plant after being fully developed, shipping directly after picking, or storing the flowers where they will be exposed to extremes of temperature, draughts or vitiated air may at any time send a carnation to the place where there is no awakening. Still it is a problem and one that must be solved or the improved carnation will suffer a serious loss of prestige.

The decided advancement in recent years in the quality of cut flowers grown for the wholesale markets is doing much to fix the attention of the public on the cut flower as something they cannot dispense with. The Lawson carnations, American Beauty roses and Rhinebeck violets of to-day are the bulwarks of the cut flower trade against the onward progress of the plantsman's tempting product. The Robert Craigs, Richmonds, and Wellesleys of to-morrow can be depended upon to maintain the prestige already won. Just here we think is the salvation of the cut flower industry from the ignominy that had well-nigh overwhelmed it through the reckless disregard of the honor of their profession and the rights of the public, by short-sighted growers who would coerce the out-of-town florist and his customers into buying, at outrageous prices, holiday flowers that had been held up for days or even weeks. It was perfectly natural that the public should protest and, when the plant grower, with commendable wisdom, came forward with attractive material at stable values, turn its favor in his direction. The plantsmen have never betrayed this confidence. Each year sees their product improved in quality, enlarged in variety, and consequently appealing more strongly to the flower-loving people. The holiday plant cannot be dislodged and it should not. It has come to stay. But it is certainly refreshing to those who have watched the career of the cut flower industry and deeply regretted the folly of so many of its followers, to note the change that has come about and the splendid recuperative resources displayed. The extinction of the "salter," the enterprise of the hybridizer and the consequent awakened interest of the retail dealer and the public are opening up a future full of promise for the flower grower.

What Ye Neighbors Say

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Your paper is almost the expression of what my ideal has been for years. If you keep it up you are a winner. — B.

Discontinue our ad. for thermometers after this week's edition. Entirely sold out and unable to procure more.

Yours respectfully,
WM. ELLIOTT & SONS.

Allow me to congratulate you on the first issue of HORTICULTURE. The style, the arrangements of the advertisements, and the press work are far superior to the other three Florist papers. — J. D. T.

Let me congratulate you on the appearance of HORTICULTURE, your new enterprise. I like the lines upon which it is laid, its height, and its breadth, and its general prosperous appearance. May its aspirations always be to elevate is the sincere wish of E. L.

Accept my congratulations on your most attractive paper. The achievements possible to workers in the field of horticulture are only limited by their application of intelligent activity.

For such workers, and for journals like HORTICULTURE, there is always plenty of room at the top. — H. H. G.

Nahant, Mass., Dec. 13, 1904
HORTICULTURE PUBLISHING CO.,
11 Hamilton Place, Boston.

Gentlemen: Please discontinue my ad. in HORTICULTURE, as I am entirely sold out and have nothing more to offer at present. Just as soon as I have anything to advertise you shall hear from me.

Yours truly,
T. ROLAND.

After Ye Adjournment

Ralph M. Ward & Co.'s calendar for 1905 now adorns our office wall. It is a stunner and eclipses anything in the American Beauty line that we have seen for many a day. The Western contemporary of "fetching" title-page fame, is completely out-classed.

We should like to know more of that "rose that will not fade," said to have been "propagated" by Luther Burbank. What a boon it would be to the chronic "salters." Store up all the roses cut for a whole year! How the wicked retailers would have to shell out! And how the Christmas price would soar, to be sure! The "Wizard" of horticulture will now have steadfast friends where he had none before.

Prosperity is in full swing, beyond a doubt, among the retail flower people, or at least that large section of the trade supplied by Messrs. Bayersdorfer & Co., with the material demanded now-a-days by an artistic and luxury-loving public. We are informed by Messrs. Bayersdorfer & Co., that never before have they experienced so overwhelming a call for Holiday goods. We are glad to hear it, for this firm is a liberal advertiser in HORTICULTURE. Why shouldn't they be prosperous?

Wholesale Prices and Trade Prices

George C. Watson has received the following communication from Thomas Meehan & Sons.

Dear Sir: We are glad to have seen and read your article in the December 10th issue of HORTICULTURE, on the subject of wholesaling stock to the consumer. As we understand your attitude on the question, we think it a very proper one. There is no question in our mind, it is not right to supply the persons indicated in your notes with goods at trade prices. The dealer or the grower who purchases to complete his orders has a right to expect some difference between the prices he pays the grower and the current retail prices.

We do feel that buyers of a quantity of stock should be given some consideration, and in our business dealings we freely offer what might be properly termed wholesale prices to large buyers. Note that we make a distinction between wholesale prices and trade prices. In fact, we think we were the first nurserymen who printed a catalogue giving wholesale prices. While they are wholesale, they are not trade, and the one in the trade can secure stock from us, with perhaps two or three exceptions, at less than the wholesale prices in our retail catalogue, which protects him and at the same time gives considerable advantage to the large buyer.

As to a person's moral right to sell at whatever prices he chooses to make, we raise no question, — not because we have no opinion, but because there is a good business policy that is applicable without going deeper. Any good business house will not completely overlook the dealer who really does considerable to develop trade. He is an important factor in the dissemination of stock, and is entitled to consideration. It is an easy matter for nurserymen to maintain such a system of pricing if they choose, and it is simply the desire on the part of some to grab all they can without loss of time that induces the practice of reckless price cutting.

We believe in occasional bargains and these are cut prices. Sometimes they are heavy cuts, but they are on special things only and for a limited time. Our general system of pricing is as firm as it can be. We have many times lost good orders because the prospective purchaser could not cajole us into disregarding those good business rules; but we have the satisfaction of knowing that our customers, as a whole, place confidence in our system of pricing and know that they are not paying more than others in their class do.

We hope to see the subject further discussed and that the best business systems will be put forward and will prevail.

Yours very truly,
THOMAS MEEHAN & SONS, Inc.
S. MENDELSON MEEHAN,
Vice-Pres.

A movement has been started in Eastern Massachusetts to raise by subscription a fund of $60,000 to be used in fighting the gypsy moth pest. It is planned to spend most of the money in the search for and securing a parasite that will keep the moth in pest.

Plantsmen's Topics

Prepare for blizzards.

"By the work one knows the workman."

Clean flower pots bespeak the well-trained gardener.

Watch out for red spider on the azalias. Keep the hose handy.

Read the advertisements in this paper carefully each week. There are some novelties of rare merit advertised now or about to be.

News of the arrival of Mr. James Farquhar at Porto Rico, has been received. Mr. Farquhar will stay there a good portion of the winter.

Otto Strassenburg, who has been with W. W. Edgar at Waverley, Mass., for the past year, has resigned and gone to Florida for the benefit of his health.

A GARDENER EXONERATED

Philadelphia, Dec. 17. Alphonse Pericat of Philadelphia has been adjudged not guilty of the charges brought against him of stealing pipe, orchids, hybridizing records, etc., by his late employer, George B. Wilson. This verdict is hailed with great satisfaction by Mr. Pericat's many friends in the trade who have from the first believed that the charges were unfounded, and to the unprejudiced observer smacked largely of persecution. Let us give thanks that there is still some justice in our courts even though the defendant be a poor man and the prosecutor a rich one.

G. C. W.

DRACÆNAS MASSANGEANA AND LINDENII

These two varieties are invaluable for general decorative work. In the private collection they have a grace and beauty which always attracts admiration. They can be grown not only in stove temperature but in the palm or intermediate house with equal success, and will maintain their foliage for years. I have some specimens that I planted in the center of a palm bed twelve years ago and they still retain some of the old foliage. I get three and four crops of cuttings a year from them. There are not many plants that can so well stand the hardships of indoor decoration and they are especially useful to fill up places where palms would be too spreading. I have put them into the dwelling-house in November and taken them out in April in good condition.

There is no dracæna more easily propagated than these two subjects. They do not lose their bottom leaves when potted from the cutting bed, as most varieties do. They do not require to be exposed to the sun at any time and if given plenty of shade and moisture, will at all seasons be an ornament in the greenhouse or dwelling.

JAMES WHEELER.

Money invested in wise advertising is well invested. HORTICULTURE advertising is always wise.

To secure good customers, Advertise in HORTICULTURE.

FERNS



A PAPER READ BY DAVID LUMSDEN BEFORE THE GARDENERS' AND FLORISTS' CLUB OF BOSTON

I know of no class of plants, taken the year round, which give us so much pleasure and real enjoyment as ferns. Where can we find any plant that will excel or even equal the fern in grace, beauty, and utility?

Ferns are now in greater demand than ever before, not only for greenhouse cultivation, dwelling-house adornment, ferneries, and other decorative purposes, but also for use with other flowering and decorative plants, making many excellent combinations. Persons in every station of life are taking a great interest in ferns, and are desirous of cultivating them. What gardener or florist have we present among us this evening that has not been called upon repeatedly to answer questions, such as "What is the best kind of a fern I can get to live in my house? I have steam heat (or furnace heat as the case may be) and we want a fern that will grow. What variety can you recommend? What is the proper way to treat them?" It is very true they are flowerless plants, nevertheless they are, I may say, everybody's favorite; in fact, through the whole of my experience in Europe as well as in America I have met no one who is not a fern-lover.

Ferns have a very wide geographical distribution and are found in almost every part of the world. They range from the tropics, where they are found in greatest profusion, to the arctic region as far north as Greenland. In some places they are found at the sea level, in other places they attain an altitude of several thousand feet. Some will grow only in hot climates, others only in cold, and in their native haunts you find some growing in a dense shade, while others stand the scorching rays of a tropical sun. We find them growing by the side of winding streams, in dense shady glens, others revelling in crevices of rocks when we would think it impossible for them to get sufficient nourishment to exist, and some are small, their fronds being scarce one-half inch in length, while others (tree ferns) attain a height of fifty feet. Thus, among ferns we find every conceivable kind of growth, and a great diversity of habits and requirements, yet, notwithstanding all this, no other plants are so easily managed in cultivation.

While it is considered necessary to have a knowledge of the various species in order to excel in their cultivation, yet the whole family can be satisfactorily cultivated by careful attention to a few rules. First, as to the right kind of a soil to use; second, the temperature to be maintained winter and summer; third, a moist atmosphere free from drafts; fourth, abundance of light and at the same time protection from the scorching rays of the sun during the summer months.

We find most tropical ferns are evergreen, that is to say, they retain their foliage until new foliage is produced the following season, and some varieties retain their foliage for a number of years. Very few of the tropical varieties are deciduous, while amongst the species from colder climates we find the deciduous varieties predominate. A great mistake made by the novice is, when ferns have lost their foliage, placing them on their sides or away in some corner of the greenhouse unseen and forgotten, where they are left for weeks without water. The chances are the roots are injured, and if the plants are not killed outright, it is impossible for them to make such vigorous growths the following season as they would if they had been kept continually damp. Those that have lost their foliage must be supplied with sufficient water to keep them moist while resting.

The right kind of soil to use for fern cultivation is fibrous loam, and to obtain it grass sods should be taken from the field, stacked up grass-side down, layer upon layer, and left to remain a year or longer. By that time the roots of the grass will be dead. Care should be taken in cutting the sods from the field that they are about three or not more than four inches deep, as the fibrous part of the loam is the portion we require. Leaf mould made from

leaves collected during the fall and allowed to lie in large heaps for a season or two, until entirely decomposed, or collected from the woods, where the leaves fall annually and decay, forming nature's fern garden, is an excellent material.

At one time the idea was prevalent that ferns could not be grown without peat in the compost. By experience we find that this is erroneous. The great value of leaf mould is acknowledged by our leading growers. Clean, sharp river sand should be used to keep the compost open, and admit the passage of the surplus water freely through the soil. Charcoal, broken small, is very valuable, and can be freely mixed with the compost for some varieties of ferns. It is also a valuable agency placed on the tops of the crocks, as it tends to insure good drainage and keep the soil pure. A great many persons have the mistaken idea ferns need a dense shade to grow in. Most ferns like abundance of light, and our fern ranges are better from the beginning of November to the early part of March without any shade.

There are various methods of propagating ferns, some being propagated from tubers on the roots, some from bulbils formed on the rhizomes, and some from spores, the latter being certainly the most interesting process. The spores vary in the different species. In some species we find them arranged along the edge of the frond, in others spread all over the surface, and in others they form large patches on certain parts of the frond. Some of the clusters are covered with what we would call a very thin membrane, which gradually lifts as the spores ripen, and oftentimes shrivels or falls off. In some species the spores are not covered at all, being a pale green in their infancy, and as they advance to maturity becoming some brown, some black, others green, according to the species. When the covering shows signs of beginning to lift, it is an indication that the spore is almost ripe. The fronds bearing the spores can then be gathered, wrapped in paper and hung up to dry in any warm, dry place where there is no danger of water reaching them. In the course of a few days when they are sufficiently dry, they are taken and rubbed through a very fine wire sieve, to remove the frond and a portion of the chaff. They are then ready for sowing.

After experimenting in various ways with the sowing of spores I find the most satisfactory results are obtained by using pots of, say, 5 or 6 inches in diameter. They should be filled to within one inch of the top with drainage consisting of small crocks, cinders or charcoal. The pot is then ready to receive the soil, which must be loam (to which no manure has been added) screened fine and thoroughly sterilized either by baking over a fire or by the use of steam until all forms of vegetable and insect life have been destroyed. After filling the pots with the compost, be careful to make the surface perfectly level, then water them thoroughly and allow them to stand an hour or so. They are now ready to receive the spores. Care must be used when sowing to select a place free from drafts, as the spores being so fine, the least breeze will scatter them in every direction, and disappointment will result.

After sowing, the pots should be put in a shady place in the greenhouse and covered with glass. This glass covering should be kept on continually to prevent other spores getting in and to maintain a humid atmosphere. A dry atmosphere is detrimental to germination. The pots should stand in saucers containing water which will rise up and keep the compost moist. If any of the pots are found to be drying out, they must by no means be watered overhead, which would disturb and wash the spores out of their places, but placed in a pail of water, until it has soaked up and saturated the whole compost. It is an old axiom in human life that "cleanliness is next to godliness;" in plant life this is equally true, especially among seedling ferns, for they readily rebel under unclean conditions.

The warm or exotic ferns germinate best in a temperature of say about 65°. The cooler or hardy ferns will germinate in a much lower temperature. The first sign of growth appears in a faint coloring of green on the soil which will rapidly spread over the whole surface. At first indication of the spores making tiny fronds they should be separated in small patches and planted in other pots or flats containing fern compost. Overhead watering may now be indulged in, but use a very fine rose on your watering pot, also keep under glass for a time longer and give more light. They will soon need dividing again, and presently when large enough to handle they may be placed in 2 or 2½ inch pots. There is mystery attached to raising ferns from spores, and it is no uncommon occurrence for a kind to appear which is totally different from the one which has been sown. Also, despite the utmost care in collecting and saving spores, several kinds may appear in the same pot. It is reasonable to assume that the spores in the fern house are being constantly wafted by currents of air, and readily attach themselves to fronds of other species, and of course mixed plants must result.

As I have previously stated, there is an increasing demand for ferns in this country, especially in varieties suitable for jardiniere work. In fact, the demand is far in excess of the supply, although I may say millions of ferns are raised annually throughout the country. We find our old favorite, Nephrolepis. Bostoniensis, still in great demand, and the new and beautiful variety "Piersoni Elegantissima" or Ornamental Boston Fern, also Nephrolepis Scottii, a wonderfully dense and compact growing variety, making an excellent house plant, and a beautiful centerpiece for a table when grown in the shallow pan pots. In my humble opinion this excellent fern has a great future before it.

I shall now enumerate a few varieties of ferns suitable for filling jardinieres. The pteris family is for such work indispensable. Among the best are P. adiantoides, a deep green and glossy fern, P. argyrea, a showy green and white variety, native of the East Indies, P. cretica and its varieties albo lineata and magnifica, together with the showy variety Mayii, P. serrulata and its varieties cristata, cristata compacta and densa, all natives of the tropics, and P. tremula from New Zealand, a quick grower which makes a nice pot plant, together with the crested variety Smithiana. Aspidium Tsussimense, a Japanese fern commonly known in this city as "Tensemense," is a general favorite on account of its good keeping qualities, but is somewhat slow of growth.

Crytomium falcatum, the "Holly Fern" of Japan, is always in demand, Lastrea opaca and chrysoloba, the former from China and the latter from Brazil. Polystichum (lastrea) aristatum variegata, a dense green fern with yellow stripes on the fronds and Onychium Japonicum or "Parsley Fern," both of Japanese origin, Pteris Chinensis and Polystichum coriaceum, a South African fern when well grown will make a nice specimen, are all among the best. Cibotium (Dicksonia) Schiedei, a beautiful graceful fern much in demand by the leading decorators throughout the country, makes a good house plant; stock is always scarce and difficult to obtain. Sitolobium (Dennstædtia) cicutarea tenera is very showy, native of tropical America.

In adiantums we have first to mention Adiantums cuneatum, decorum and gracillimum, the latter in demand on account of its light and graceful appearance; also Adiantum Croweanum, the new maiden-hair which, owing to its strong vigorous growth and long stems, will become a general favorite with the trade, where marketing the fronds is a feature, as well as in private places where cut maiden-hair is always used. Adiantum Farleyense, the queen of the maiden-hair family, a native of the West Indies, is now grown in quantities by the trade, both as a pot plant or for cut fronds whenever first-class decoration is a feature.

Alsophilla Australis, a fern frequently asked for and very desirable on account of its stately appearance, and Dicksonia antarctica, are both Australian ferns. The davallias are an interesting family. The variety bullata or "Squirrel's Foot Fern," is sold in large quantities made up in fern balls and various other shapes as received from Japan. The variety Canariensis makes a nice pot fern and readily develops into a nice specimen, as do also the varieties Figiensis, plumosa, and majus. Platyceriums or Stag-horn Ferns are always interesting on account of their curiously shaped fronds, resembling stag horns. The variety Alcicorne majus is a free-growing variety and P. Grande is also a fine variety, but somewhat scarce.

In taking a survey of the ferns I have mentioned, we find we owe much to Japan, as a great many of our most beautiful species are natives of that country. There are thousands of other varieties of most beautiful ferns that time will not permit me to talk about, but the varieties mentioned in my paper are the most popular from a commercial point of view. Let us each do our own part to make them still more and more interesting to fern-lovers so that we may all say with Twamley:

"The green and graceful fern,
How beautiful it is;
There is not a leaf in all the land
So wonderful, I wis.

"Have ye 'eer watched it budding
With each stem and leaf wrapt small,
Coiled up within each other
Like a round and hairy ball?

"Have ye watched that ball unfolding
Each closely nestling curl?
Its fair and feathery leaflets
Their spreading forms unfurl?

"O, then most gracefully they wave
In the forest like a sea,
And dear as they are beautiful
Are these fern leaves to me."

OUTDOOR ART AND CRAFT

CHICAGO, ILL. — Every schoolboy on the South Side will be a horticulturist now. The South Park Improvement Association has decided to give the boy or girl who can bring proof of having caused the greater number of trees to be planted from now until November 1, 1905, a cash prize of $50. To the two next successful tree planters, prizes of $30 and $10 will be given. — *Chicago Inter-Ocean*, Nov. 17, 1904.

NEW YORK, N. Y. — A small park of perhaps 25 or 30 acres at the north shore on Little Neck Bay, adjoining Fort Totten, would secure for the people of New York one of the most commanding natural situations in the greater city, and the finest point of view on Long Island. Suitable land for a park can now be secured free of costly improvements and with varied topography, from the high points on the bluff down to the water of the Sound, thus combining land and water views from a small area. This location will soon be accessible by the trolly from Whitestone, now extended to within about half a mile of the property. It is estimated that this land should be secured for from two to three thousand dollars per acre. — *Brooklyn Eagle*, Nov. 13, 1904.

LOS ANGELES, CAL. — One of the features of the report which the Committee on Shade Tree Investigation will likely make next week to the Board of Trade, will be the recommendation that live oaks be planted along the streets, and another feature will be the exoneration of the pepper tree, which has come into disfavor on account of its breeding black scale to a great extent. The committee, consisting of T. P. Lukens, T. J. Ashby and W. A. Butterworth, has made exhaustive research into the kinds of trees that are suitable for lining public thoroughfares. They expect to get out an illustrated circular, listing the different kinds of trees and telling where they grow best, respectively. — *Los Angeles Times*, Nov. 14, 1904.

SAN FRANCISCO, CAL. — The association for the Improvement and Adornment of San Francisco has renewed its efforts for the carrying out of its plans which include, primarily, the establishment of a high standard in the architecture of our municipal buildings, the creation of a civic center, the acquisition of more parks, connected by parkways, an insistence upon æsthetic possibilities of railway lines and the removal of telegraph poles and billboards and other hideous advertisement signs which now deface the public thoroughfares. Secondarily the association's efforts are being directed towards the encouragement of the decoration of houses to conceal architectural defects, such as the cultivation of vines and window box and balcony gardens. The association is inviting the coöperation of a larger membership. — *San Francisco Chronicle*, Nov. 15, 1904.

PHILADELPHIA, PA. — On the farm of Irwin H. Schantz, who lives near Spinnerstown, Bucks County, stands a mammoth chestnut tree, one that eclipses all the rest of the giant chestnut trees in the Keystone state. Two feet above the ground the circumference of the trunk of this tree measures exactly thirty-six feet. The tree's height is sixty feet, and ten feet from the ground are two branches, one to the left and the other to the right, and the circumference of the former is eight feet and the latter nine feet, two inches. Ten feet above the ground its great branches extend, one of them is six feet, 4 inches in circumference, each of the others a few feet less. Its boughs spread nearly ninety feet. The age of the tree is known to be at least 221 years, from tales told by ancestors of the proprietors of the property on which the tree stands. With luxuriant foliage like that of a young tree, the monster chestnut still bears abundant crops. — *Hartford Times*, Nov. 25, 1904.

SACRAMENTO, CAL. — At the foot of Mt. Tamalpias, and within easy reach of San Francisco, lies Redwood canyon, one of the most beautiful spots of California. The canyon is not large, does not contain in all more than 600 acres, but 400 of these are covered with magnificent redwood trees, giant ferns, and the beautiful undergrowth peculiar to California forests. That such a natural garden could exist unmarred by woodman's axe within an hour's ride of San Francisco has long been one of the most remarkable things about it. But for half a century it has remained undisturbed one of San Francisco's most popular outing places, until San Franciscans have grown to regard it as their own, and unthinkable that the suggestion to cut down the canyon's trees would ever be seriously entertained. But the canyon is private and not public property; the trees have a commercial value. It is announced that the property is for sale, and that certain individuals who run largely to commercial instinct are "figuring" on the amount of lumber and wood that can be gotten from it. It is said that the entire canyon trees, wild flowers, ferns and picnic grounds can be purchased for $80,000. As has been said, the canyon is within an hour's ride of San Francisco; once the ferry is crossed, it is an easy walk to the grove. The State has purchased the Great Basin of the Santa Cruz mountains for a State Park; Los Angeles has numerous tracts lying outside of the city limits, one of them, at least, containing 3,000 acres, which are used or being prepared for park purposes; San Jose has a beautiful natural park at Alum Rock, several miles outside the city limits. There are plenty of precedents to govern San Francisco in acquiring the Redwood Canyon property, and if the purchase be made, the city will have one of the most beautiful natural parks in the world. — *Sacramento Union*, Nov. 15, 1904.

NEW YORK, N. Y. — The city of New York is permitting rapid deterioration in the value of one of its assets which cannot be replaced — the trees in the parks and public places. The reason for this is that there is no organized public opinion behind the effort to those who are doing all in their power to save them. We have societies for all sorts of purposes, but not for this purpose. The Tree Planting Association comes the nearest to taking an interest in this matter, but its energies are largely wasted in trying to persuade people who do not want trees in front of their houses to plant them where the chance of their growing is scarcely better than would attend the growing of an orange crop in Maine. To make a small hole in a stone sidewalk, plant a tree whose roots can find nothing more nutritious than illuminating gas, and expect to have it become a neighborhood ornament and promote the health and happiness of coming generations of citizens, suggests the innocent but futile play of children who are "making believe." Meanwhile, for lack of such coöperation as the members of this association could give and which none could give as well, the official guardians of our public trees are powerless to do for them what their exigent needs demand. A study of the trees in any of the parks of New York will show a condition of neglect which threatens in a very few years to convert these pleasure grounds into waste places. This is as true of the grass as of the trees, with the essential difference that the grass may be more easily and quickly replaced and the consequences of neglecting it are for that reason less serious. Prospect Park contains many sad examples of fine trees left to die from neglect; but the field is much too large to be covered in one descriptive article and it is unnecessary to look outside of Central Park for as many examples of destructive cruelty to beautiful trees as the reader who may be willing to take an interest in the subject can profitably study. A large proportion of the trees in Central Park show signs of deterioration and in many cases are rapidly dying from lack of proper nutrition. The first and surest indication of this is found in the sparse foliage, less readily recognized now than it might have been two months ago. This may mean weakness which comes from great age, in which case a tree requires extra nutrition to stimulate its failing vitality; but it is more likely to mean poverty of the soil if it has received little or no attention for a long time, though the more necessary in the case of trees that have to struggle against the disadvantage of a vitiated atmosphere more or less charged with sulphur from coal and the acid fumes of a thousand industries. What should be done for these trees? Samuel Parsons, landscape architect for the department, answers this question by an illustration. On the west side of the Mall, near the bronze eagler, is an English oak, presented by the Prince of Wales, now King Edward VII. Like the other trees in the Park, it was neglected and two years ago it was in a forlorn condition and appeared to be as near death as any tree which still lives. Its scanty foliage turned yellow in midsummer and fell off, and it was infested with insects. To the depth of twelve or fifteen inches, which was as deep as it was possible to go without danger of injuring the roots, the surface soil was removed over an area about thirty feet in diameter. For it was substituted a rich compost of two parts good mold and two parts stable manure. The tree was then syringed for the purpose of destroying the insects which infested it. The effect was magical. Within a fortnight the tree re-leaved, it took on the appearance of

The Best New Plant of the Year!

Nephrolepis Piersoni Elegantissima

PRICES:—2¼-inch pots, $9.00 per doz; 50 plants at 60c. each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each. LARGE PLANTS READY FOR IMMEDIATE USE—5-inch pots $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

F. R. PIERSON CO.
Tarrytown-on-Hudson NEW YORK

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get results beyond your expectation.

FOR ..NEW YEAR'S

Erica Fragrans $1.50, 2.00
One house full of this splendid Heath especially for New Year's
Azaleas, Pink, White and Red, $1.00, 1.25, 1.50
Cyclamen 50c., 75c., $1.00
Daisies $1.50, 2.00
Jerusalem Cherries, $4.00, 5.00, 6.00 per doz.
Dracaena Terminalis, 75c., $1.00, 1.25, 1.50
Dracaena Fragrans . $1.00 to 3.00 each
Crotons . . . . . 75c. to $2.00 each

PALMS, PYRAMID BAYS and ARANCARIAS

Holiday orders should be placed at once

ANTON SCHULTHEIS
College Point, L. I., N. Y.

vigorous health, and is now in excellent condition. During the past year it has been possible to treat in this way some twenty of the most important trees in the Park, with results the same as those noted in the Prince of Wales oak. The interests of the city demand that not less than $50,000 be spent in 1905 for this purpose alone. Very little of this would be devoted to tree doctoring, but practically all of it should be used to provide fresh and fertile top soil and compost, and the work, so far as areas immediately about the trees are concerned, will amount to resurfing Central Park. — *New York Times*, Nov. 20, 1904.

A bill has been introduced in the national senate by Senator Gallinger for the purchase of a national forest reserve in the White Mountains of New Hampshire. This effort to save what is left of these noble forests comes none too soon, and it is to be hoped that the bill will be promptly passed and become a law. To this end our readers are urgently requested to communicate with their respective congressmen and do what they can through this and other means to impress upon Congress the fact that this great movement has the support of the people all over this country. The American Civic Association has taken up actively the work of agitation and the Appalachian Mountain Club, in reiterating its former prayer for favorable action on the bill relative to the proposed reservation in the Southern Alleghanies, now couples with it the request for prompt consideration on the White Mountain project.

IN WRITING

ADVERTISERS

Kindly Mention

HORTICULTURE

Two Useful Hardy Roses



The accompanying illustrations show the manner in which the borders of roads and paths are treated generally throughout Boston's park system. Shrubbery, mostly of native species, is planted in an irregular grouping along the edges and allowed to wander almost at will, thus tending to soften the too often hard lines of paths and drives.



It will be noticed in our illustration that the Michigan rose (Rosa setigera) has grown down into and beyond the gutter. The same softening effect is produced on the path side of the border, the planting illustrated being simply that of a strip separating a walk from a driveway, on the parkway connecting the Arnold Arboretum and Franklin Park.

The second illustration shows the Japanese rose (Rosa multiflora) bordering a bridle-path, just within the entrance of Franklin Park.

The program of the seventh annual meeting of the Maryland State Horticultural Society has been received. The meeting will be held in the Maryland agricultural college, College Park, Md., on Wednesday and Thursday, December 28 and 29. The subjects proposed for discussion are interesting, and a number of prominent gentlemen, including Hon. James Wilson, Secretary of Agriculture, are to make addresses. J. B. S. Norton, College Park, is secretary of the society.

Random Notes Abroad

[No. 2]

One of the most striking and meritorious hardy border plants that came within my observation while abroad, meritorious for cutting purposes as well as for the bold show it made in the hardy border, especially when massed in large clumps, was Chrysanthemum leucanthemum maximum, a name sufficiently long to assure the purchaser of his money's worth, if a name goes for anything. As if the above name wasn't long enough to describe the merits of this really good thing, an additional prefix of *superba* was tacked to a variety of the type, and which is evidently a superior selection of the former inasmuch that the flowers are considerably larger and the plant seemingly stronger. The above plant is a close relative of our "Shasta daisy," which it very much resembles in many respects; if I remember aright, the former being one of the parents of the Shasta daisy, but far superior to it as I have seen it grow and flower in Great Britain, the flowers being in many instances nearly five inches across, with correspondingly long stems. It certainly was, as seen in large clumps, a striking and conspicuous object, producing its large white flowers in abundance for a number of weeks at a time; and unlike the Shasta daisy, as I have experienced on this side the Atlantic, its flowers didn't seem to be affected in the least, or but very little, with the almost incessant rains that prevailed at the time when I saw it.

Though the Shasta daisy is prolific enough in producing its flowers, the trouble is, as I have experienced it, that it is supersensitive to moisture in the air, the flowers becoming rusty, and spotting readily with the least moisture, making it difficult to gather a bunch of perfect flowers from a large number of plants at any one time. In the beginning of November I came across an exceedingly pretty, if not gorgeous, piece of Clematis Jackmanii that covered a large portion of the front walls of a wayside inn, "Achilty Inn" in Ross-shire. The size of the flowers and the wealth of same in a given space I have never seen equalled. It was a perfect sheet of massive blue flowers, covering from view leaves and wall alike.

Beyond the clematis in the same border and against the same wall, a plant of Gloire de Dijon rose was planted. It also claimed a goodly portion of the wall disputing the right of the clematis by insinuating some of its lateral branches through the other vine. It also flowered in abundance and made a splendid show, the portion that encroached on the clematis being particularly charming, as its creamy-white flowers arose a few inches above the solid curtain of blue made by the other flowers.

Beholding such fine floral displays as those produced apparently with the minimum of care, a person cannot help regretting that the same subjects couldn't be made more amenable to our climate and conditions.

Speaking of vines and creepers for wall covering in general, one of the most charming of them all in the writer's opinion, and as seen grown in the British Isles, was "Cotoneaster Simonsii." It is elegant at all seasons, with its small evergreen bay-wood-like leaves. In the early fall and winter it is covered with a profusion of coral-

red berries that give it a singular charm. As seen trained up against the pretty cottages at the mineral watering resort — Strathpeffer — and other places, it formed a dense mat not unlike Ficus radicans in density and literally covered with berries. In another place and not so far distant from the above, I have seen it used as a canopy over a retaining wall, where it formed a thick, but comparatively low hedge, completely covering the top of the wall and draping its face with its drooping branchlets, producing a continuous curtain of dark green foliage, abundantly bedecked with coral-red berries, furnishing a picture of rare elegance, and to me novel, as I haven't seen it used in this fashion before.

In favorable and mild winters it is hardy here. In sheltered localities near the sea-shore, where the inland colds and harsh winds are somewhat moderated by the influence of the salt water, it ought to do well. It is certainly worthy of a trial.

One of the many pleasing, and most cheerful features from a floricultural standpoint, yea, and a soul-elevating standpoint, is the frequency with which window-gardening, so-called, is met with in the British Isles, as well as other European countries.

It is regrettable that there is so little attention paid to this branch of gardening on our side the Atlantic; there being plenty of material suitable for the purpose, looking at it from our climatic constitutions and environments, that would produce equally as fine and pleasing displays as our friends across the seas can accomplish, provided our Yankee proclivities take a hold.

Some of the prettiest plants used for the above window gardening on the other side, are the lobelias in variety, but in particular Crystal-Palace - Gem which has but few rivals as a frontal row in a window-box; occupying that position as it invariably did in the many fine displays observed, the effect was charming beyond words, and will ever remain vivid in my memory.

It was somewhat tantalizing to a New Englander to notice the frequency with which one of the noblest trees of his own country (by adoption) was met with, and the manner it flourished in the North of Scotland, especially so when reflecting on the fact that not a vestage of it can he recall seeing in any of the New England States. I refer to the giant red-cedar of California, Sequoin gigantea, commonly known also as Wellingtonia gigantea. It does splendidly in the North, and seems to be esteemed highly there as a specimen lawn tree; of course it is to be met with in more or less numbers throughout the British Isles, in all of which places it succeeds well. It makes one of the most distinct and pleasing evergreen specimens for the lawn; it is invariably strictly pyramidal in habit of growth, very feathery and graceful in outline even up to a large size; foliage light green.

Nature has evidently marked this tree out to withstand great wind pressure, as well as to attain a great height. It has, considering kindred conifers, an abnormally thick base which is quite conspicuous in the young stages and goes on apace, increasing in girth as the tree ascends in height.

There are some very fine specimens of this noble tree to be seen in the neighborhood of Strathpeffer, mentioned elsewhere in this note, 50 and 60 feet high and furnished down to the ground with feathery, light-green branches; there is one particularly large one on the grounds of Castle Leod, the property of the Countess of Bromarty I believe, and in the immediate vicinity of the *Mineral Wells* of the above mentioned place, but less well furnished at the butt-end; I should judge that this specimen was any way from 75 to 85 ft. in height. It would be interesting to know how far north and east in the United States this tree grows successfully.

One other American tree still more unique as far as general appearance goes, and which never fails of arresting attention, is the "Monkey-puzzle" Chilian Pine, (Araucaria imbricata). It also seems to be quite at home in the North of Scotland as evidenced by some very fine samples seen there, which in many cases were clothed to the ground with their singular branches. The sight of those grotesque and very tropical-looking forms, looming up in this landscape, constantly suggested to my mind that they might have gone astray and out of their proper latitudes, so uncommon they appeared from all other forest trees. Yet, there they were, apparently quite satisfied with the latitude they happened to be sojourners in, as clearly indicated by their vigor and luxuriance. There is a specimen 40 or 50 feet high, a little distance beyond the Spa-pump house door in Strathpeffer, and though bare of branches a little ways up the stem, otherwise it is strong and vigorous, yet it arises out of what may be termed the promenade ground, which is practically, or nearly as hard as the middle of the street. This would tend to indicate that those so very tropical looking subjects are not so delicate as they appear and are quite able to take care of themselves.

Immediately in front of one of the end doors leading into the fruit-houses of Mr. Fletcher Rose-Avoch, stands a very large specimen tree of the Chilian Pine, especially in spread of branches, the height being for some reason or another not commensurate; this particular individual three or four years ago produced a large quantity of good seeds, from which seeds plants have been raised; the same tree has borne more or less seeds each succeeding year since. This is somewhat uncommon, I believe, for trees of the above to do in the British Isles at least. Being dioecious, as the botanists have it, it requires one of each sex to be more or less in the immediate vicinity of each other to accomplish seed production, with probably a certain age limit and other favorable conditions thrown in.

Cedrus deodora, or Indian Cedar, is another conifer that is plentifully grown in Great Britain, and as seen there was exceedingly effective in this landscape. It much resembles the larch, or what is commonly called here "Hackmatack" in the foliage and other characteristics, but much more dense in growth and less rigid in outline, the branches arching and drooping gracefully earthward; it does famously in Great Britain in general, and attains large proportions there, but is most pleasing when in the medium size.

K. FINLAYSON.

W. H. Wyman of North Abington, Mass., is about to start early in January on an extended visit to the nurseries of France and Holland.

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WHOLESALE CUT FLOWER MARKET REPORTS

Boston Wholesale Cut Flower Market

Three days before Christmas.

There is no surplus in sight at present writing, but probably history will repeat itself and the surplus may be trusted to emerge from its hiding place by Saturday morning. Just at present there is need for more stock in some lines than is forthcoming. Values on Wednesday and Thursday are undoubtedly better on many items than they will be a day or two later. The weather is favorable for a full production and good quality. The usual reluctance to pay advanced prices for Christmas is manifested by the local retailers who have been assiduously devoting their attention to plants and greens. The latter has been a good business this year for all. Holly enjoyed a healthy demand and there is now no overstock in evidence. Mistletoe came in rather poor order this year. Much of it appeared to have been gathered too early. All that arrived in good shape has been well sold.

Prices at middle of the week for immediate delivery are lower than those quoted in advance for Saturday delivery. American Beauty stands still at anything beyond $50, but Christmas deliveries are quoted at $100 for the best grade. From these figures they run down to $10 and even less on inferior stock. Bridesmaid is selling all the way from $3 to $16 for stock ranging from inferior up to standard quality, the Christmas quotations running about 20 per cent higher. Liberty fills the gap between these and the Beauties, being quoted as high as $50 for fine high-grade material. Carnations are somewhat of a puzzle. As high as $8 is being "asked" for some choice stock, but so far the sales at such a figure are few and good judges are skeptical of seeing them go beyond $5 to $6 on an average. Red will, of course, have a special value. Poinsettias are abundant at $25 to $50, according to size and finish. The demand for them is good.

Violets are showing evidences of strength, good flowers bringing at present writing from $1 to $1.50, with indications that by Sunday they may stiffen up still further, especially if the weather should be such that they can be worn outside.

All other flowers such as bulb stock, lily of the valley, etc., stands at the same figures as for several weeks past.

Chicago Cut Flower Market Reports

E. H. Hunt in a circular on the situation, issued one week in advance of Christmas, makes the following statements:

We have gone over the situation very carefully and this is our surmise: with any kind of weather, roses will be in fair supply, though not big; in carnations there will be a fair cut; violets, a good supply. The real shortage will be in Beauties, medium lengths. We also look for a shortage in Liberties and red carnations.

Beauties are short in supply and continue to run to long and short, quality fair. Brides and 'Maids about equal to supply and showing vast improvement. Liberty a little off crop, and while flower is good, stems continue short. Chatenay has taken a decided brace and much in demand.

Carnations in fair crop and quality good; at no time better. Enchantress seems to lead with Estelle a close second. Liluim Harrisii a little more plentiful though this is caused no doubt by lack of demand. Callas not as plentiful though there is ample to supply demand. Valley in good cut at present and quality very fine. Violets not any too plentiful and demand good.

Mr. Hunt's price quotations published as the market rates for flowers for week beginning Monday, December 19, 1904, include the following:

Roses, American Beauty, per dozen, 24 inch to 36 inch, stems $8 to $12; 15 inches to 20 inches, $4 to $6; 8 inches to 12 inches, $2 to $3. Brides, selected, per 100, $10 to $12; medium, $6 to $8; Bridesmaid, selected, $10 to $12; medium, $5 to $8; Liberty, $10 to $25; Perle, $4 to $6; Golden Gate, $6 to $10; Chatenay, $8 to $15.

Carnations, medium, per 100, $4 to $5; fancy and extra fancy, $5 to $8.

Miscellaneous, Callas, per dozen, $1.50 to $2; Harrisii, $2 to $2.50. Mignonette, per 100, $6 to $8. Paper Whites and Roman Hyacinths, $3 to $4. Valley, $4 to $5. Violets, single, $1 to $1.50; double, $2 to $2.50.

Chicago Wholesale Cut Flower Market

For week ending December 17.

The public's Christmas shopping has shortened the demand locally, and the call was mostly in the line of funeral work. Beauties are still in moderate supply and already command holiday prices. Bridesmaids and Brides are of fine quality and short sizes of these is below demand. Sales on carnations were on a weak basis, general demand continuing dull, but with the ending of the week everything was cleaned up. Receipts compared with corresponding time last week increased. The general demand for orchids is on the increase, and the indications point to a shortage in this line. Christmas prices went into effect Monday, December 20.

Latest Reports from Chicago

Are to the effect that American Beauty roses in medium lengths are at a premium. Liberty is also scarce. Beauty is quoted all the way from $20 to $100, and Liberty, from $12 up to $25. Bride and Bridesmaid of good quality are in fair supply, $15 being average price asked for good stock. Lawson and Enchantress carnations are held at $5 to $10 and violets are quoted all the way from $1.50 to $2 for single, and up to $3 for double. Retail dealers are rebelling against the system of putting holiday prices in effect nearly a week in advance of Christmas.

Louisville Market Report

Business conditions are particularly favorable for a successful Christmas business. Stock, with the exception of roses, will be somewhat scarce. Several large decorations will mean some good hustling. Carnations are of very good quality and are very scarce. Mignonette, violets, lilies of the valley, will average a good deal short in quantity, but the quality is very good.

The growers have been a little unfortunate as to bringing their crops in for the Christmas business, and will suffer quite a loss; however, the prospects for future crops are very good.

Joseph Coenen & Co. report a good run on ferns, but the sale of palms very discouraging. Schulz finds a big demand for Lorraine begonias.

Among the fine window decorations are those of Mrs. C. W. Reimers, who makes a great display of American Beauty roses that create no little sensation, and Mrs. C. B. Thompson, who has an arch in her window on Fourth avenue, supporting a lot of red goods.

Buffalo Wholeale Cut Flower Market

As Reported for December 20.

Indications show a shortage in supply of flowers this week. The retail demand is not yet very brisk, but anything that is really good is picked up at sight. Holly runs of rather poor quality and is selling slowly. Other Christmas greens go all right.

Buffalo Christmas Prices

As quoted in advance.

Roses, Beauty, extra, fancy and special, $25 to $150; Nos. 1 and 2, $20 to $25; Bride and 'Maid, special and fancy, $20 to $25; extra, $15 to $20; Nos. 1 and 2, $10 to $15; Liberty, special and fancy, $25 to $35; extra, $18 to $20; 1 and 2, $10 to $15; Golden Gate, special and fancy, $15 to $20; extra, $12 to $15; 1 and 2, $8 to $10. Carnations, Lawson, $3 to $6; Enchantress, $4 to $8; other sorts, $2 to $5. Lilies, $15 to $20. Violets, $1.25 to $2. Hyacinths, $3 to $4. Lily of the Valley, $3 to $5. Asparagus plumosus, $40 to $60; Sprengeri, per 100 bunches, $25 to $50. Smilax, $15.

There is only one kind of advertising that is wise. It's the kind that makes business. Cut out the rest. . . . .

ADVERTISE IN HORTICULTURE

Directory of Clubs and Societies

Secretaries are respectfully requested to promptly notify HORTICULTURE of any changes of officers of their respective societies.

CINCINNATI FLORIST SOCIETY, Cincinnati, Ohio. — Pres., Benjamin George; Vice-Pres., Gus Adrian; Sec'y, Geo. Murphy; Treas., J. W. Rodgers. Meetings second Saturday of each month, three exhibitions held each year.

CANADIAN HORTICULTURAL ASS'N. — Pres., G. A. Robinson; 1st Vice-Pres., W. Suckling; 2d Vice-Pres., C. G. Johnson; Treas., H. Simmers; Sec'y, A. H. Ewing. Next annual meeting in Montreal, probably in August.

COLORADO SOCIETY OF FLORICULTURISTS, Denver, Colo. — Pres., John Satterthwaite; Treas., Mrs. J. M. Johnson; Sec'y, J. A. Valentine. Annual meetings, third Thursday in January.

THE DETROIT FLORIST CLUB, Detroit, Mich. — Pres., Robert Watson; Vice-Pres., L. Bemb; Treas., Walter Taepke; Sec'y, J. F. Sullivan; Librarian, Norman Sullivan. Meetings first and third Wednesday of each month.

THE GARDENERS' CLUB OF BALTIMORE, Baltimore, Md. — Pres., John A. Cook; Vice-Pres., Fred C. Bauer; Rec. Sec'y, John J. Perry; Fin'l Sec'y, Philip B. Welsh; Treas., Fred G. Burger; Librarian, Chas. M. Wagner. Meetings second and fourth Monday of each month.

FLORISTS' CLUB OF PHILADELPHIA, Philadelphia, Pa. — Pres., John Westcott; Vice-Pres., David Rust; Treas., J. W. Colflesh; Sec'y, Edwin Lonsdale. Meetings first Tuesday of each month.

MILWAUKEE FLORIST CLUB, Milwaukee, Wis. — Pres., W. A. Kennedy; Vice-Pres., Fred H. Holton; Sec'y, Herman V. Hunkel; Treas., C. Dalwig. Meeting first Tuesday of each month.

MASSACHUSETTS HORTICULTURAL SOCIETY. After January 1, 1905: — Pres., Arthur F. Estabrook; Vice-Pres., Robert T. Jackson; Treas., Chas. E. Richardson; Sec'y, Wm. P. Rich.

MONTREAL GARDENERS AND FLORISTS' CLUB, Montreal, Can. — Pres., Jos. Bennett; 1st Vice-Pres., Alex Gibb; 2d Vice-Pres., A. Walker; Sec'y-Treas., Wm. H. Horobin.

TARRYTOWN HORTICULTURAL SOCIETY, Tarrytown, N. Y. — Pres., James Ballantyne; Vice-Pres., Joseph Bradley; Sec'y, Edward W. Neubrand; Cor. Sec'y, Thos. A. Lee; Treas., James T. Lawrie. Meetings last Thursday of each month.

MONMOUTH COUNTY HORTICULTURAL SOCIETY, Oceanic, N. J. — Pres., Wm. Turner; Vice-Pres., George Hale; Sec'y, H. A. Kettel; Fin'l Sec'y, Geo. R. Kuhn; Treas. W. W. Kennedy. Meetings first and third Fridays of the month; annual exhibition early in November.

TUXEDO HORTICULTURAL SOCIETY. — Pres., Wm. Hastings; Vice-Pres., Thos. Murray; Sec'y, James MacMachan; Treas., George Stewart. Meetings first Tues. after the first of each month.

THE WESTCHESTER COUNTY HORTICULTURE SOCIETY, Mount Kisco, N. Y. — Pres., A. L. Marshall; Vice-Pres., Wm. Wills, Katonah; Sec'y, Herbert A. Spavins. Meets every month; annual reunion at Mount Kisco.

INTERNATIONAL SOCIETY OF ARBORICULTURE, Connersville, Ind. — Pres., Wm. J. Palmer; Sec'y-Treas., John P. Brown.

NEW BEDFORD FLORIST CLUB, meets second Thursday of each month.

NEW ORLEANS HORTICULTURAL SOCIETY. — Pres., Harry Papworth.

NEBRASKA FLORIST SOCIETY, Omaha, Neb. — Pres., W. R. Adams; Vice-Pres., George Soranson; Sec'y, Lewis Henderson; Treas., George Swoboda. Meetings second Thursday of each month.

ST. LOUIS FLORIST CLUB. — Pres., J. J.Beneke; Vice-Pres., Wm. Winter; Sec'y, Emil Schray; Treas., Otto Koenig.

SOCIETY OF IOWA FLORISTS, Des Moines, Ia. — Pres., J. T. Temple; Vice-Pres., R. L. Blair; Sec'y, Wesley Greene; Treas., G. A. Heyne.

UTICA FLORIST CLUB. — Pres., F. J. Baker; Vice-Pres., Seward Hakes; Sec'y, J. C. Spencer; Treas., C. F. Seitzer. Meeting first Thursday of the month; Chrysanthemum meeting in November; Carnation meeting in February; annual outing and clambake in August.

HOLYOKE HORTICULTURAL SOCIETY, Holyoke, Mass. — Pres., E. A. Reed; Treas., Chas. E. Mackintosh; Sec'y, Geo. H. Sinclair. Meetings first Wednesday in the month; Exhibition, Rose show in June.

IOWA STATE HORTICULTURAL SOCIETY, Des Moines, Ia. — Pres., P. F. Kinne; Vice-Pres., W. A. Burnap; Sec'y, Wesley Greene; Treas., Elmer M. Reeves. Annual meeting at Des Moines, Dec. 13–16, 1904.

NORTH SHORE HORTICULTURAL SOCIETY, Manchester, Mass. — Pres., P. R. Sanborn; Vice-Pres., W. B. Jackson; Treas., James McGregor; Sec'y, James Salter; Fin'l Sec'y, Herbert Shaw. Meetings first and third Fridays of each month.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY. — Pres., R. P. Pryde; Vice-Pres., Thos. Pettit; Sec'y, Patrick Keane; Treas., David Kydd. Meetings first and third Tuesday of the month.

The greenhouses of Charles H. Green at Spencer, Mass., were badly damaged by fire on the morning of December 15. The office building was completely destroyed and many plants ruined.

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Should reach us by Monday, December 26, if possible, or Tuesday, December 27, at latest.

In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment.

NEWS OF THE CLUBS AND SOCIETIES

The late C. E. French of Boston left a bequest of $8,000 for the Massachusetts Horticultural Society.

On pages 99 and 100 of the Proceedings at St. Louis, Mo., the remarks credited to Mr. William Dilger of Detroit, Mich., should have been credited to Mr. F. P. Dilger of Milwaukee, Wis.

WM. J. STEWART, *Sec'y.*

At a meeting held at Glen Cove, Long Island, on December 15, the Nassau County Horticultural Society was organized. Officers were elected as follows: president, Thomas Harrison; vice-president, James Halloway; treasurer, E. J. Brown; secretary, S. J. Trepass. The new society starts under very encouraging auspices.

Inoculating Soils with Bacteria to Increase Plant Production was the subject under discussion at the meeting of the Farmer's Club of the American Institute at New York on Wednesday, December 14. Papers were presented by Dr. George D. Moore, U. S. Department of Agriculture, and Prof. Willis G. Johnson, Managing Editor *American Agriculturist.*

The Kentucky Society of Florists met at F. Walker & Co.'s store with a rather small attendance. The election of officers resulted as follows: August R. Baumer, President; Anders Rasmussen, Vice-President; Fred L. Schulz, Recording Secretary; Joseph Coenen, Financial Secretary; C. H. Kunzman, Treasurer; Joseph Wettle, Sergeant-at-Arms; and Herbert G. Walker, Trustee for three years.

The Annual Meeting of the Connecticut Horticultural Society was held at Hartford, on December 14. It was voted to have a banquet in the near future. Officers were elected as follows:

President, A. C. Sternberg; vice-presidents, Theo. Wirth, G. X. Amrhyn, D. A. Lyman, Edward Hoyt, T. S. Gold, O. A. Leonard; treasurer, W. W. Hunt; secretary, L. H. Mead.

The annual banquet of the Lenox Horticultural Society was held on Saturday evening, December 17. Over one hundred members sat down to a beautifully decorated table. A. H. Wingett was a most efficient toast-master. The speakers included E. J. Norman, Frank Howard, H. A. Bunyard, William Sefton, A. McConnachie, Frank Butler, R. A. Stanley and J. M. Johnson.

The regular meeting of the society was held on the same evening. A diploma was awarded to Thomas Proctor, gardener for Mr. Patterson, for six spikes of Calanthe Veitchii. A. J. Loveless, E. R. Norman, and George Foulsham were the judges.

The approaching exhibition of the American Rose Society in connection with the spring show of the Massachusetts Horticultural Society at Boston is sure to be one of the most remarkable displays of roses ever seen in this country, for the exhibits will not be confined to any one section or class of roses, but will embrace them all as far as is possible in a winter show. Some phenomenal plants may be looked for, and those who will make the effort to come to Boston at that time to see or participate in the exhibition may depend upon it that the New England brethren will make good the promise given last year when the Rose Society accepted the invitation to come to the Hub. If you have anything worth showing in the line of roses, get ready to display them. This opportunity for publicity and honors will not be missed by sagacious growers.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The December meeting of this organization, held on 20th inst., was, like its immediate predecessors, a good evidence that an era of activity and usefulness is now on and that the club will become, once more, an influential factor in the horticultural life of Boston. About fifty gentlemen were present to listen to Mr. Lumsden's practical paper on ferns, which we present in another column. The exhibition tables were loaded with a display of novelties and other material, all evidencing superior cultural excellence. There were two big vases of splendid blooms of the new roses Richmond and Wellesley. The former had made the journey from its Indiana home in perfect order and showed up grandly, much better than it did at New York last week. Wellesley, with its silvery pink buds, made a fitting companion for the crimson visitor.

Two variegated Lawson carnations were shown, one by the Rockland Greenhouses and the other by H. A. Stevens. These are quite distinct, the latter being more heavily striped than the other and closely resembling Mrs. M. A. Patten in general tone. H. A. Stevens showed a dish of phenomenal mushrooms from "pure culture spawn," which he states he has found to be far superior to imported spawn, better results being obtained at a lower temperature and giving mushrooms of a heavier texture and better shipping qualities. The culture is so simple that failure is not likely, and he predicts that it will revolutionize the mushroom growing industry.

S. J. Goddard sent seedling carnation No. 19, light salmon, medium size and fine contour; also Helen Goddard, a big substantial looking cerise that all agreed has a bright future before it. Peter Fisher sent a splendid white, marked No. 401, large sized flower of chaste finish and very long stems; also 173, a pink seedling, Mrs. M. A. Patten, Flamingo and Nelson Fisher. M. A. Patten staged a seedling from Prosperity and Gov. Roosevelt, in which the parentage is well pronounced. William Nicholson had a large vase of the latest introductions, and Peter Murray sent a fine salmon pink named Winsor. W. N. Craig showed Lælia anceps, the type and six varieties, also L. Goldiana. Mr. Ogg brought one of his beautiful Lorraine begonias from the J. M. Sears conservatory. There was a vase of superb mignonette from William Nicholson, Euphorbia fulgens (Jacquiniæflora) from Robert Cameron, and a brilliant group of poinsettias from president-elect Wheeler. The exhibitors were called on severally to say something regarding their various exhibits. Mr. Montgomery's remarks concerning Wellesley were especially interesting. He said that it is not possible to judge of what a seedling rose may become before its third year and, in fact, it may keep on developing its character up to the seventh year. He believed that many a good rose had been thrown away because this fact was not sufficiently well recognized.

Mr. Nicholson explained that an exhibit of Fiancee and Cardinal had been expected from Joliet, Ill., but it had failed to arrive. He believed the custom of sending carnation novelties for exhibition one or two days' journey from their home is unfair to the varieties. Introducers should distribute some of the stock to be grown by approved representatives in different sections, so that the flowers could be always shown fresh and in best form. Fiancee he pronounced to be a wonder and in a class by itself.

Peter Fisher said of Flamingo, of which he showed a vase, that he had seen a marked improvement in it since he had raised the temperature a couple of degrees. The disposition to throw occasional semi-double blooms, he thought, might be eradicated by selection and the standard of quality thus greatly improved.

The committee on awards reported certificates of merit for Peter Fisher for 411, S. J. Goddard for Helen Goddard, M. A. Patten for Mikado, Alex. Montgomery for Wellesley, E. G. Hill Co., for Richmond, Rockland Greenhouses and H. A. Stevens, each for variegated Lawson, cultural certificates to H. A. Stevens for mushrooms, and Alex. Ogg for Lorraine begonia, and honorable mention for Peter Murray for carnation Winsor, Peter Fisher for No. 173, S. J. Goddard for No. 19, and William Nicholson for mignonette.

Mr. Duncan reported on the successful field day which the club enjoyed last Saturday, visiting Messrs. Nicholson and Goddard at Framingham. He mentioned especially the Prosperity Carnations at Mr. Nicholson's which that gentleman regarded as the best all around paying variety in the whole list. He had been particularly impressed with the good service Mr. Nicholson was getting from a Scotch marine internal fire-box boiler, a hot-water heater, using soft coal, economical and reliable.

Mr. Lumsden's paper gave much pleasure. In reply to questions, Mr. Lumsden said that he knows of no authenticated case of success in hybridizing ferns. Hybridization is supposed to occur at the time of germination.

Ten new members joined the club. The next meeting will be the inaugural for the new officers.

A PLEASANT OUTING

The members of the Gardeners' and Florists' Club of Boston, to the number of thirty-four, enjoyed a delightful visit to the greenhouses of William Nicholson and S. J. Goddard on Saturday, December 17. Mr. Nicholson's place was first visited and came in for sincere admiration for the excellent condition of the stock. Attention was called to two different lots of The Queen carnation planted at different seasons, in which the earlier planted showed a vast superiority. An innovation for Christmas was favorably commented upon —

ten-inch pans of geranium, West Brighton Gem, about seven or eight plants to the pan and all a sheet of bloom. Mr. Goddard's place was found to be a model. His carnations, including novelties, seedlings and standard varieties, were enthusiastically commended for their prosperous appearance. The visitors were entertained by a lunch at both places and the customary vote of thanks was given, with accompaniment of three cheers for their hosts.

PENNSYLVANIA FORESTRY ASSOCIATION

The annual meeting of the Pennsylvania Forestry Association was held December 14, at its rooms, No. 1012 Walnut Street, Phila., and all the officers were re-elected for the ensuing year. Reports were made by President John Brinkinbine, and the secretary, treasurer and recording secretary. In the president's report attention was called to the fact that at the session of the State Legislature next year the Forestry Department or the Governor will probably offer recommendations concerning the administration of the forest reserves of the State, with a view to making them profitable as well as ornamental. The treasurer's report showed the association to be in good financial condition.

In the report of the council of the association, made by recording Secretary F. L. Bitler, it was shown that at present Pennsylvania owns 700,000 acres of forest reserves, which are being added to from time to time when desirable lands can be obtained at reasonable figures. As far as the association is aware, Pennsylvania is the only State in the Union except New York which is pursuing a regular system of acquiring forest reserves. There are now 1624 members of the association.

THE AMERICAN CARNATION SOCIETY

REGISTRATION, —

Senator Crane. By Robert C. Pye, Nyack, N. Y. Light pink, three and one-half-inch flower, high built, of perfect form, and a non-bursting calyx; long, stiff stems; free and continuous bloomer. Parentage, Lawson & Bradt.

Uncle Peter. By D. C. Noble, Columbia City, Ind. Light pink (same shade as Enchantress), a sport from Lawson, with same quality and habit as that variety.

Vaughan's Seed Store and John C. Moninger of Chicago, Ill., are offering special prizes for the meeting in Chicago, Ill., January 25 and 26. In order to give everybody an opportunity to offer a prize that desires to, the premium list will not go to press until the 26th of December.

The Western Passenger Association has granted the rate of a fare and one-third for this meeting; this includes the whole state of Colorado and from that east and north.

ALBERT M. HERR, *Sec.*
Lancaster, Pa.

OUR BUSINESS IS

To place } your { advertising effectively.
To push } your { vigorously.

TO SAVE YOU MONEY
and
To Bring you Business.

THE MARKET GARDENER

The Boston Market Gardeners' Association celebrated by a banquet at the United States Hotel, Boston, on Thursday evening, December 15, the eighteenth anniversary of its organization, with president W. W. Rawson in the chair, also for the eighteenth time. There were about two hundred members and guests present, including many ladies. In his opening talk Mr. Rawson took occasion to voice the sentiments of the market gardeners as opposed to reciprocity with Canada or anything tending to a reduction of the tariff now protecting this industry. He said that high-priced labor is a boon to the market gardener.

O. B. Hadwen, president of the Worcester County Horticultural Society, spoke of the delights of the rural home and told of his seventy years of farm life and his life-long interest in trees. He was followed by secretary J. E. Ellsworth, of the State Board of Agriculture, who is also a trustee of the Massachusetts Agricultural College. Mr. Ellsworth spoke convincingly of the splendid opportunities offered now to young men to make profitable investments and adopt a delightful avocation by taking up the few abandoned farms that are yet to be had.

Senator Dallinger of Cambridge talked on his favorite subject, that of reclaiming, cultivating, and developing the salt marshes of which there are about 200,000 acres in the neighborhood of Boston. He explained how by a system of dyking and draining at an expenditure of not over ten dollars an acre, land now not worth over five dollars an acre may in three years be brought to a value of two hundred dollars an acre. He claimed that such land is more productive than any upland area, requires no fertilizer, and is unequalled for the production of hay and for market gardening.

Quaint and comical was the speech that next followed, by Mr. Holt. Then came a "pome" by Thos. L. Creely, a Belmont gentleman of a poetical turn of mind. Mr. Austin Simonds, president of the Boston Fruit and Produce Exchange, spoke eloquently of the development of fruit from a luxury to a necessity of life, and extended cordial greetings from the great and influential body he represented. Mr. Jere McCarthy, surveyor of the port of Boston, next told in a humorous vein of his early experience at farming, extending over one day and a half. The chaplain of the occasion then closed the exercises of this very enjoyable evening with some good stories, and reached the very heart of his audience when he prefaced the benediction with the assertion that "a man who can get a dollar for a cuke is a genius."

THE POTATO CROP

For the first time in some years it appears that the United States will supply enough potatoes for home consumption, the crop which was harvested this year being the largest ever known. It is estimated that the supply will furnish about three and one-half bushels to every man, woman, and child in the United States, which is a little more than the quantity ordinarily used. It is worthy of note, however, that the acreage remains about the same each year, and the difference in crop is due to a larger yield than usual, Maine leading with 200 bushels to the acre and New Hampshire coming second with 145 bushels to the acre. The potato crop forms a considerable item in Maine's wealth, and in that State there is a tendency to increase acreage. While the agriculture of New England has become to a large extent intensive, and the production of wheat and corn has gone to the Western States, it is a source of comfort to the New England farmer to know that on our stony soils are produced larger crops than can possibly be grown on the more fertile lands of the West, and the supremacy of the northeastern States as potato producers is not likely to be disputed. For the last few years potatoes have been imported to make up for deficiencies in the national supply, but this year's experience shows that we can grow all the potatoes we need at home. The prices are low at present, owing to the large supply, but potatoes can be produced with profit even if they are sold at a low price, and the farmers of New England should take advantage of this opportunity which nature has given them.

Boston Transcript.

CHARLES LA DOW, INVENTOR

Mr. Charles La Dow, a well-known inventor and manufacturer of agricultural implements, dropped dead in Albany, N. Y., on December 18. He was famous both for the large number of patents issued in his name by the United States Patent Office, being supposed to hold the record in that respect, and for the number of patent litigations in which he was for many years involved. He was about sixty-six years old.

W. E. Sanderson, representing J. M. Thorburn & Co., is in Boston calling on old friends in the trade and can be found at Hotel Thorndike

W. W. RAWSON & CO. Arlington Tested SEEDS BOSTON MASS

RAWSON'S
Arlington Tested
SEEDS For the Florist.
Catalogues Mailed Free.
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square BOSTON

What have you to sell? Tell it to our readers.

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts of all Leading Machines
32 So. MARKET ST., BOSTON

Request. When writing to these advestisers, kindly give credit to HORTICULTURE.

BULBS
HORSESHOE BRAND
and PLANTS
Ralph M. Ward & Co.
17 Battery Pl. New York

We wish you all ***A Happy and Prosperous New Year***

The LEO NIESSEN CO., Wholesale Florists, 1217 Arch St., Philadelphia

J.A.BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty..... WHOLESALE GROWER of **CUT FLOWERS**

Philadelphia Wholesale Cut Flower Market

As Reported for December 20.

Roses are in supply rather in excess of the demand, but prices hold fairly on what sales are made. The poorer grades have been congested on account of the freezing weather which cut off the street outlet. Carnations are fairly plentiful and prices holding pretty good on first-class stock. Second grade slow. Violets rather abundant and not selling very well on account of the inclement weather. Plenty of cypripediums, but cattleyas scarce. Gardenias, scarce at $75 for good blooms. All other stock in normal supply and at usual values. Holly unsatisfactory. Not up to standard of quality and causing trouble for the distributors. Retailers feeling rather dejected over general business early in the week.

Philadelphia Wholesale Cut Flower Prices

As Reported December 19.

Roses: American Beauty, special and fancy, $40 to $50; extra, $25 to $30; Nos. 1 and 2, $15 to $20; Bride and Bridesmaid, special and fancy, $12 to $15; extra, $8 to $10; 1 and 2, $2 to $6; Liberty, special and fancy, $20 to $30; extra, $10 to $15; 1 and 2, $2 to $8; Golden Gate, special and fancy, $10 to $12; extra, $8 to $10; 1 and 2, $2 to $6. Carnations: Lawson, $4 to $6; Enchantress, $6 to $8; ordinary, $2 to $4. Violets, single, $.30 to $.75; double, $.50 to $1.50. Lilies, $15 to $20. Narcissi and Roman hyacinths, $2 to $3 Lily of the valley, $2 to $5. Asparagus, $25 to $50. Smilax, $12.50 to $15.

St. Louis Wholesale Prices

Stock good and scarce Christmas week. Trade quiet last week but prospects improving. Beauties, extra, fancy and special, are quoted at $75 to $100; lower grades, $15 to $50. Bride, Maid and Golden Gate, extra, fancy and special, $8 to $18; other grades, $5 to $6. Liberty, extra, fancy and special, $8 to $20; lower grades, $5 to $6. Carnations: Lawson, $4 to $6; Enchantress, $6 to $8; other varieties, $3 to $6. Lilies, $10 to $20, according to quality. Narcissi and Roman hyacinths, $2 to $4. Lily of the Valley, $3 to $5. Violets, single, $.75 to $1.50; double, $1.50 to $2.50. Asparagus plumosus, $35 to $75. Sprengeri, $1.50 to $4. Smilax, $12.50 to $15.

Baltimore Wholesale Cut Flower Market Report

Baltimore has had about four bright days in twenty. The effect of this on Christmas stock cannot be other than severe. There are indications that growers are holding back quantities of stock in the vain expectation of getting Christmas prices for it. Doubtless Friday will see heavy shipments of this pickled material. The garbage man has been notified.

Baltimore Wholesale Prices

As quoted December 22, for Christmas week.

Roses, Beauty, specialand fancy, $50; extra, $35; Nos. 1 and 2, $10 to $20, scarce; Bride and Bridesmaid, special and fancy, $15; extra, $12; 1 and 2, $6 to $8, not enough to supply demand; Golden Gate, special and fancy, $15; extra, $12; 1 and 2, $6 to $8; fairly good supply; Perle, $4 to $8; Ivory, $6 to $15, not enough to kill orders. Carnations, Lawson and Enchantress, $5 to $8, others $3 to $6. Lilies, $12.50 to $16. Roman hyacinths, $2 to $3. Paper White, $2.50 to $3. Lily of the Valley, $3 to $4. Violets, single and double, $1 to $1.50. Adiantum, $1. Asparagus plumosus, $25 to $50; Sprengeri, $25 to $50. Smilax, $15 to $25.

FERNS, GALAX

and ALL HARDY GREENS

for NEW YEAR'S

Best Stock in the country

Florists' Supplies

H. M. Robinson & Co.

8 and 11 PROVINCE STREET

BOSTON, MASS.

To Out of Town Buyers

When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try

...BAKER...

THE Oldest Wholesale Florist in Philadelphia

Address: 1432 SO. PENN SQUARE

BERGER BROTHERS Roses, Carnations

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

ORCHIDS

AND

Fancy Cut FLOWERS a Specialty

IF YOU WANT CHOICE CUT FLOWERS AT ANY TIME OR ALL THE TIME, SEND TO

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO.

WESTERN HEADQUARTERS FOR CHOICE ORCHIDS, ETC., ETC.

WEILAND-AND-RISCH

CHICAGO'S RELIABLE

Wholesale Growers and Shippers of

CUT FLOWERS.

59 Wabash Ave., CHICAGO.

Send for weekly price list.

WHOLESALE FLORISTS

The Only Wholesale Plant House in New York City

Saves Time Saves Money Saves Trouble

CHARLES MILLANG

50 West 29th Street New York City

TELEPHONES, 3860-3861 MADISON SQ.

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WHOLESALE FLORISTS

1305 Filbert Street

PHILADELPHIA

FRED EHRET WHOLESALE **FLORIST**

Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.

CHRYSANTHEMUMS until Christmas, including Dorothy Faust, Fancy White.

1403-5 Fairmount Ave., PHILADELPHIA.

Established 1890

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OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

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Largest Wholesale Shippers of . . . . . .
CUT FLOWERS
SOLE AGENTS FOR
FOLDING BOXES
Durable Economical
15 Province Street
TEL. MAIN 6267 BOSTON, MASS.

FRANK MILLANG
at the
Flower Growers' Market
55-57 W. 26th Street
NEW YORK
Telephone, 299 Madison Square
Open 6 A. M.

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies
Renowned Cottage Garden Carnations

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

Violet and Carnation Growers
Will find a reliable market with
W. H. CUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

Geo. Saltford
WHOLESALE FLORIST
46 WEST 29th ST., - NEW YORK
Telephone 3393 Madison Sq.
Consignments Solicited

Chas. Smith
Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand.

JOHN I. RAYNOR
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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Choice Cut Flowers
39 West 28th Street, New York
Telephone : 902 Madison Sq.

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

New York Wholesale Cut Flower Market

As given for the first of the week, were as follows: —

Roses: American Beauty, special and fancy, $25 to $40; extra, $15; Nos. 1 and 2, $2 to $8; Bride and Bridesmaid, special and fancy, $10 to $15; extra, $8; Nos. 1 and 2, $2 to $5; Liberty, special and fancy, $15 to $20; extra, $10; Nos. 1 and 2, $3 to $5; Golden Gate, special and fancy, $10 to $15; extra, $8; Nos. 1 and 2, $2.50 to $4. Carnations: Lawson, $2 to $4; Enchantress, $6 to $10; regular stock, $2 to $4. Lilies, $12 to $15. Paper White, $1.50 to $2. Roman hyacinths, $1 to $2. Lily of the Valley, $2 to $4. Violets, $.75 to $1.25. Smilax, $8 to $10. Adiantum, $.50 to $1.50. Asparagus plumosus, $25 to $50. Spren Jeri, $10 to $25.

New York Cut Flower Prices per 100

As quoted middle of week.

Roses: American Beauty, special and fancy, $25 to $50; extra, $20 to $25; 1 and 2, $8 to $16; supply equal to demand. Bride and 'Maid, special and fancy, $12 to $15; extra, $8 to $10; 1 and 2, $2 to $6; top grade limited in supply; inferior grades ample. Liberty, special and fancy, $15 to $25; extra, $10 to $12; 1 and 2, $3 to $8; moderate supply. Golden Gate, special, $10 to $15; extra, $6 to $8; 1 and 2, $2 to $6. Carnations: Lawson, $3 to $6; Enchantress, $4 to $10; others, $2 to $6; fair supply. Violets, single, $.75 to $1.50; double, $.75 to $1.50. Lilies, $16. Narcissi, $2. Roman Hyacinths, $1.50 to $2. Lily of the Valley, $1.50 to $4. Asparagus plum., strings, $25 to $50, bunches, $20 to $35; Sprengeri, bunches, $25 to $35 Smilax, $10 to $12.

Cincinnati Christmas Prices

As quoted December 19.

Roses, Beauty, $25 to $100, according to grade; Bride and Bridesmaid, $6 to $12; Liberty, $8 to $15; Golden Gate, $5 to $10. Carnations, Lawson, $5 to $8; Enchantress, $6 to $10; others, $4 to $6. Violets, single, $1.50 to $2.50; double, $1.50 to $3. Lilies, $16. Lily of the Valley, $4 to $5. Hyacinths and narcissi, $2 to $3. Smilax, $12.50 to $15.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

ORCHIDS In Large or Small Quantities
James McManus
50 West 30th St., New York City
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THE ONLY HOUSE
Handling the Superb New Carnation
VICTORY
To be disseminated in 1906
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Tel. 2559 Madison Sq.

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WHOLESALE
COMMISSION FLORISTS
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Telephone Call: 756 Madison Sq.

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Telephone No. 325 Madison Square.

R. C. HAYDEN, Secretary and Treasurer WILLIAM J. MUTH, Manager

THE PHILADELPHIA CUT FLOWER CO.

Wholesale Commission Merchants

High Grade Seasonable Cut Flowers

OUR SELECTED SPECIALTIES:

BEAUTYS, BRIDES and MAIDS; FANCY ENCHANTRESS, LAWSON, PROSPERITY, ETC.

A TRIAL ORDER IS REQUESTED

1516-1518 SANSOM STREET . . . . PHILADELPHIA, PA.

HEADQUARTERS FOR SEASONABLE NOVELTIES AND FANCY STOCK. Pittsburg's Largest and Oldest Wholesalers

Pittsburg Cut Flower Co., Ltd., 504 Liberty Ave., PITTSBURG, Pa.

WANTED: Consignments of High Grade Carnations.

Florists' Topics

Current comment on carnation Robert Craig: "It will do."

Two "bread and butter" carnations: Mackinaw and Octoroon.

A handsome pure white sport has appeared in a house of carnation Robert Craig at Cottage Gardens, Queens, N. Y

Luther T. Seaver, the "Pansy King" who was a candidate for the mayoralty of Medford, Mass., on a self-made platform received 40 votes in the entire city out of a total of 2,950.

The florists' establishment of A. J. Taylor at Burlington, Vt., suffered quite a serious loss of stock from inundation due to the bursting of a large water main, on December 13.

The trade exhibition heretofore held each season at the Flower Market in Boston will be held this winter at Horticultural Hall, the invitation from the Massachusetts Horticultural Society to do so having been accepted by the managers of the market. A liberal contribution for prizes for this occasion has been made by both old and new flower markets. In addition, a special prize of $10 will be offered by HORTICULTURE, for the best vase of one hundred carnation blooms in not more than three colors, arranged with any kind of foliage, color scheme and artistic effect to be considered in making the award.

Chicago Christmas Greens Market

Owing to the ruling of the railroad companies all shipments of green goods must be prepaid from point of shipment and consequently less cars are shipped on speculation. This has developed a sharp upward move on prices and strengthened the entire Christmas green market. Best holly brings $5 to $6.

Business Changes and New Establishments

Mark Aitkin, Springfield, Mass., has opened a pretty store at 378 Main Street.

W. J. Halliday has opened a commodious store at 323 North Charles Street, Baltimore.

John Mutch, Newtonville, Mass., has filed a petition in bankruptcy; liabilities, $2,470.34; assets, $765.

NATICK, MASS. — William E. Glidden has opened a flower store at the pharmacy of P. H. McGrath & Co.

The greenhouses and business of George F. Sylvester at Hanover, Mass., have been sold to Stanley Baker.

W. E. Marshall & Co. have opened a seed, plant and bulb establishment at 146 West 23d Street, New York City.

The Bagler-Gober Nursery Company has been incorporated at Marietta, Ga. They own about 1,300 acres of land, and will plant about 2,000 trees this winter.

Catalogues Received

J. D. Thompson Carnation Company's Catalogue of rooted cuttings, Joliet, Ill. Handsomely printed and contains fine half-tone illustrations of popular varieties of this season's introduction.

Hoopes, Brother and Thomas, West Chester, Pa., "Handbook of Ornamental Trees and Plants." Profusely illustrated with fine half-tones of ornamental trees, flowering shrubs and climbing vines.

Reasoner Bros. Royal Palm Nurseries, Oneco, Fla. A list of plants principally tropical, very extensive, and so carefully edited as to serve for a useful reference book which every plantsman should keep on his desk.

Lord & Burnham Co., Irvington-on-Hudson, N. Y. A book of more than fifty rich half-tone views of private conservatories and commercial greenhouses, exterior or interior, designed and erected by this representative American firm.

Another Yarn

The anecdotes of the "Ginger Jar" man appear to have awakened a responsive echo in Milwaukee. This one comes from Mr. Will Currie.

MILWAUKEE, *Dec.* 12, '04.

"In reading Mr. Watson's 'Out of the Ginger Jar' in HORTICULTURE of Dec. 10, the story of the hen with a wooden leg reminded me of one I heard in Scotland this summer about Niagara Falls. A visitor from Straiton, Ayrshire, was doing the Falls and, like our Hawick friend, he was keeping his own counsel. Finally, after a time, he exclaimed *'Hoots! they're no half sae bonnie as Tairlaw Linn; there's nae hills aboot here!'* Tairlaw Linn is a very small affair in a wee burn; but is beautifully located among the hills."

This illustrates the fine discernment of the Ayrshire man, who realized that there are other elements besides mere bigness that go to the making of anything to be admired.

Ownroot. — Heerd 'bout Jim Green?
Grafty. — No, wot's happened?
Ownroot. — 'E 's drowned.
Grafty. —What? Jim Green drowned? Why, 'es got my buddin' knife!

We go to the best people in the profession. Advertising in HORTICULTURE pays.

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

JAMES HART

THE ORIGINAL

Wholesale Florist

FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

WM. GHORMLEY

57 West 28th St. - - NEW YORK

ALL POPULAR ROSES and CARNATIONS for CHRISTMAS

RHINEBECK.. VIOLETS ..THE CREAM

Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens

ALL SELECT STOCK

Our Flowers

ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. Splendid stock is now coming in and the holiday crop will be JUST RIGHT. We are prepared to furnish what you require, all GOOD MATERIAL and REASONABLE PRICES. But don't put it off until the last. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 28th Street, New York City

Telephones, 798-799 Madison Square

Established 1887 Tel. 167 Madison Sq.

J. K. ALLEN

Always Reliable for Flowers Consigned or ORDERS Given

OPEN 6 A. M.

Write for Holiday Prices on Flowers

106 W. 28th Street New York

Lilies Plants and Cut Blooms

Of Highest Grade at ALL SEASONS

Japanese Miniature Plants for THE HOLIDAYS

Hinode Florist Co.

5th Street, Woodside, N. Y.

Cut Flowers

Boston's Best, all Varieties, shipped to all points

Florists' Supplies, Largest Stock in New England. Lowest Wholesale Rates.

N. F. McCARTHY & CO.

Tel. Main 5973 84 Hawley St., Boston

Headquarters in Western New York

For ROSES, CARNATIONS

And all kinds of Seasonable Flowers.

WM. F. KASTING

Wholesale Commission Florist

Also Dealer in Florists' Supplies and Wire Designs.

383-87 Ellicott St. BUFFALO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

Letters, Strips and Emblems

Koral Manufacturing Co.

Office and Factory:
26 HAWLEY STREET, BOSTON, MASS.
Telephone, Main 3978-1 J. B. Olden, Mgr.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

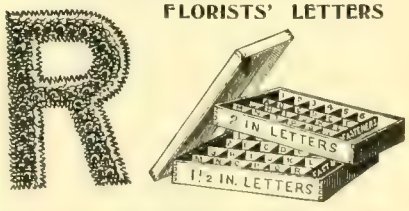
No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x1½, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

In writing above advertisers, kindly mention HORTICULTURE

Chicago Jottings

W. S. Rennison of Sioux City, Ia., was a visitor in town.

J. H. Curran has closed his store at Michigan Boulevard, and is now with Friedman.

A clerk employed by T. D. Masconesotes left suddenly, taking the day's receipts with him.

The Fleischman Floral Co. has added a large holiday plant room in the Railway Exchange building.

Louis Coatsworth has returned unscathed from his trip through the East and well-pleased with the interest manifested in the Benthey aster.

A bench of Crusader at Anton Then's leads everything in the carnation line as a money producer. This gentleman has a white seedling of Prosperity type, now in its second year, that is likely to be heard from later on. A Kroeschell boiler lately installed is doing good service.

The idea that up-to-date houses are essential to the production of good stock seems upset by the splendid condition of Lawson and other carnations at the old Jackson place now conducted by A. N. Swenson. Mr. Swenson's experience is that the indoor grown Lawsons produce the finest blooms, but that the award for quantity must be given to field grown stock.

HEARD AND RECEIVED

Mrs. Peter Murray of Fairhaven, Mass., is dangerously ill.

A. T. Boddington of New York visited Louisville, Ky., this week.

M. H. Norton has opened a flower store at No. 1A Park Street, Boston. We are glad to see Mr. Norton back in the business once more, and wish him abundant success. The location is one of the best in the city for a retail florist establishment.

Part I of the annual report of the Massachusetts Horticultural Society for 1904 is received. In addition to the transactions and lectures there are appended some notes on peony cultivation by Robert T. Jackson, also a paper on John Richardson, his house and garden, by the same author, illustrated with a number of interesting views.

Don't neglect your advertising. Let us follow it up for you while you are busy filling orders.

If you offer the right goods in the right way in these columns, you will not lack for customers.

"A long pull, a strong pull and a pull all together." — for advertiser, buyer and us, means success for all.

You / We \ want / \ orders. advertising.
Let us get together.
Right quality? Right price? Then advertise it in HORTICULTURE. That's the way to "get there."

Here are THREE WORTHIES worthy of your consideration:

Fiancee
The FINEST PINK

The Cardinal
The FINEST SCARLET

Fred Burki
The FINEST WHITE

Without exception, the best in their respective classes.

$12 per 100. $100 per 1000.
250 at 1000 rate.

S. S. SKIDELSKY
824 North 24th St. Philadelphia

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.
Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.
Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets from seedsmen throughout the United States. **Full particulars from**

Sander & Sons St. Albans, ENGLAND

Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St. N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y.

OUR HOBBY
NOVELTIES OF REAL MERIT
Our CHRYSANTHEMUMS are favorably known the world over.
Our new GERANIUMS and BEGONIA REX are of the same high standard.
We also have two CANNAS which should be added to every collection. They are "THE EXPRESS" and "OSCODA," both unsurpassed as bedders.
Descriptive Catalogue ready in January.
Nathan Smith & Son. Adrian, Mich.
Mention HORTICULTURE when you write

GARDENING UNDER GLASS

Try **Watson's** for select stocks of Tomatoes and other Vegetables for forcing under glass. You will not be disappointed. Twenty years' experience behind every order filled:

	PKT.
FORCING TOMATOES	
Frogmore Selected	$ .25
Sutton's Best of All	.15
Lorillard (true stock)	.15
Pepper's Prolific, new	.25
Stirling Castle	.25
FORCING LETTUCES	
Emperor	.05
Hittinger's Belmont	.05
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Long white Icicle	.05
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Ex. ey. white tip sct.	.05
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BOOKS	EACH
Bailey's Forcing Bk.	1.00
Morse's Rhubarb Culture	.50
Falconer's Mushroom Culture	1.00
Robinson's Mushroom Culture	.65
Watson's Mushroom Culture	free

☞ Send for my catalog. Free. Stamps acceptable for small amounts. Glad to open an account with any responsible buyer. Don't forget we are "it" on mushroom spawn! Address all orders to ***"Juniper and Locust Streets, Philadelphia"*** or ***"Watson's Seed Store, Philadelphia."***

GEORGE C. WATSON

Join Our Band

Every carnation grower and florist wants to save waste. To do this he uses tiny rubber bands in his split flowers. Michell's Carnation bands are the best. Price, 15c. per 1000; 25c. per 2000; 50c. per 4500; 75c. per 7000; $1.00 per 10,000.

Send for our complete wholesale price list of new crop Flower Seeds ***Now Ready***

Henry F. Michell Co. 1018 Market St. **Philadelphia**

Mention HORTICULTURE when you write.

ANOTHER SHIPMENT JUST ARRIVED **JAPANESE LILIES**

SELECTED BULBS — QUALITY GUARANTEED
25 at 100 Rate — Single Case at 1000 Rate

	Per 100	Per 1000
Lilium Longiflorum Multiflorum, 7-9 (235 bulbs to case)	$4.50	$40.00
Lilium Auratum, 8-9 (130 bulbs to case)	4.25	39.00
Lilium Auratum, 9-11 (100 bulbs to case)	7.00	67.00
Lilium Speciosum Album, 8-9, scarce (220 bulbs to case)	7.00	65.00
Lilium Speciosum Rubrum, 8-9 (220 bulbs to case)	5.50	50.00
Lilium Speciosum Melpomene (220 bulbs to case)	6.00	55.00

New Crop Flower Seeds Ready Send for Florists' List just issued

JOHNSON & STOKES, Seedsmen, 217-219 Market St. PHILADELPHIA, PA.

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WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

FOR RENT—Low price if taken immediately—Greenhouse property in Pittsfield, Mass. Consisting of three houses, each 100 ft. long, 3 acres of land or less, part of dwelling-house, 2800 carnation plants in one house, without charge.
Address "A." Care HORTICULTURE, Boston.

FOR SALE—One of longest established rose-growing establishments within five miles of Boston. For particulars, inquire at office of HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Responsible Solicitors in every community to get subscribers for HORTICULTURE. Applicants must furnish satisfactory reference. Liberal commission. Address
HORTICULTURE,
11 Hamilton Place, Boston.

WANTED—Good photographs of Park, Garden or Conservatory planting, interior or exterior of greenhouses or salesrooms, new or well-grown plants, novelties in flowers, floral decorations, etc., etc.
Address HORTICULTURE,
11 Hamilton Place, Boston.

To Our

Advertisers

and

Subscribers

We wish you

ALL

A Merry Xmas

and

A Happy New Year

LA DETROIT ROSE

Strong Field-grown Plants { Per 100 $15.00 | Per 1000 $125.00

THE TWO GRAND NEW WHITE

CHRYSANTHEMUMS MAJESTIC and ADELIA - - - -

90 Points — Score Commercially — 89 Points

Rooted Cuttings { Per doz. $3.00 | Per 100 $15.00 | Per 1000 $125.00

From 2-inch Pots, 5 Cents additional

"MAJESTIC" won First Prize for best one hundred White at the great World's Fair Flower Show.
"ADELIA" capable of doing the same trick in the same company.

MADONA, A Fine Pink at same Prices

CARNATIONS WHITE LAWSON and FLAMINGO - - -

Rooted Cuttings { Per 100 $7.00 | Per 1000 $60.00

Our "WHITE LAWSON" won First Prize for best one hundred Blooms at the great World's Fair Show.
Our "FLAMINGO" won First Prize for best one hundred Scarlet.

SNAPDRAGON GIANT PINK, WHITE AND YELLOW

From 2-inch Pots { Per 100 $6.00 | Per 1000 $50.00

JOHN BREITMEYER'S SONS DETROIT MICH.

CARNATIONS

SELECTED YOUNG STOCK

Flamingo, Enchantress, Queen, Queen Louise, Walcott, Lawson, Floriana, Lord and

FIANCEE

Kaiserin roses and Chrysanthemum Novelties. *WRITE FOR PRICES*
Fine large Duckham Chrysanthemum Stock plants at $1.25 per doz.

ROBERT C. PYE, NYACK N. Y.

Carnations

Catalogues Ready

J. D. Thompson Carnation Co.

Joliet, Ill.

ROOTED CUTTINGS OF

Geraniums & Carnations

SEND FOR LIST

Albert M. Herr, Lancaster, Pa.

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get your results beyond expectation.

ORCHIDS

We are headquarters for Orchids in the United States If you want Orchids for pleasure or profit, we espectfully solicit your orders.
Catalogue on Application.

LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

Palmer's

Red Lawson

NOW READY!

SPORT FROM THE FAMOUS MRS. THOMAS LAWSON

Planted May 18th, in full crop middle of August

ROOTED CUTTINGS:
$10.00 per 100
$40.00 per 500
$75.00 per 1000

Ask your *Brother Florist* if he saw it at the Detroit Carnation Show. Ten to one he will say it's a good carnation to grow. **Received CERTIFICATE OF MERIT at Detroit Carnation Show—scoring 87 pts.**

W. J. Palmer & Son
Lancaster, N. Y.

RICHMOND

The long-looked-for RED FORCING ROSE. Fine as Liberty, Free as Bride, Easy of Culture, Deliciously Fragrant.

Price, for April Delivery

PER 100	PER 250	PER 500	PER 1000
$30	$70	$125	$250

E. C. HILL COMPANY, - Richmond, Ind.

MONTGOMERY NURSERIES

VILLA NOVA, DELAWARE CO., PENNA.

John G. Gardner, Proprietor

		Per 1000
Rosa Multiflora Jap. . . .	1 year, 12 to 14 in.,	$ 15.00
Rosa Multiflora Jap. . . .	2 year, 1½ to 2 ft.,	30.00
Rosa Multiflora Jap. . . .	3 year, 2½ to 3 ft.,	70.00
Rosa Multiflora Jap. . . .	4 year, 3½ to 4 ft.,	100.00
Root Stocks for Grafting (Rosa Multiflora Jap.) . .		12.00
Rosa Rugosa	1 year, 12 to 14 in.,	15.00
Rosa Rugosa	2 year, 1½ to 2 ft.,	30.00
Rosa Rugosa	3 year, 2½ to 3½ ft.,	80.00
The Farquhar Rose	1 year old,	90.00
The Farquhar Rose	2 year old,	150.00

FIELD GROWN STOCK

M. H. WALSH
Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

Catalogue describes all the above



Spring Tooth Hoe . . $1.25

For Florists and Nurserymen. Best tool steel, adjustable in width, middle tooth can be removed to straddle a row of small plants; four foot handle. Weight 3½ pounds.

E. H. HITCHCOCK, Glenwood, Mich.

Sole Agent in United States and Canada.

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

Beautiful Grounds

An Illustrated Manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc.

A book you will often refer to. Send for it to-day. Free on application.

PETERSON NURSERY

Lincoln and Peterson Aves., Chicago, Ill.

L. B. BRAGUE

HINSDALE, MASS.

WHOLESALE DEALER IN

BALED SPRUCE



FOR CEMETERY USE

SPECIAL ATTENTION PAID TO FURNISHING IN CAR LOAD LOTS

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, $1. a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

Carpenter-Morton Co.

Established 1840

Paints, Oils and Varnishes, White Lead, Colors and Putty

Sudbury Bldg., 77-79 Sudbury St., Boston

New England Agents for Hammar Bros. Strictly Pure White Lead

—MADE IN—

HINSDALE, MASS.

The Best LAUREL and BOUQUET GREEN ROPING, and WREATHS, CROSSES, ANCHORS, etc., also supplies of RED XMAS BERRIES on SPRAYS for florists' use. HARDY, CUT, FANCY and DAGGER FERNS, BEST IN THE MARKET. SPHAGNUM MOSS, SHEET MOSS, XMAS TREES by the CAR LOAD or in small lots, the best to be had. Write for prices. Address

H. J. SMITH

Hinsdale, Mass.

The ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene,* and of course better than *ordinary Lamps.*

The ANGLE LAMP

is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP

gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

Globe Gas Light Co.

77 and 79 Union St. :: :: BOSTON, MASS.

New England Agents. Send for catalogue.

SHEEP MANURE

PULVERIZED

Free from all Adulteration

IN BAGS, $18.00 per TON

Special price on car load lots in bulk.

ROBERT SIMPSON - Clifton, N. J.

PIPE WROUGHT IRON vs. STEEL

The question is settled in favor of Wrought Iron for the florist; but the problem is: How to get wrought iron?

C. J. RAINEAR & CO.

Have proved their standing on this question by their record on "GUARANTEED" WROUGHT IRON PIPE. You get what you order with an absolute guarantee. You get it promptly and you get it at the lowest market rates. Our motto: "PROMPTNESS, LOW PRICES." Mention "Horticulture" when you write.

C. J. RAINEAR & CO., 518 ARCH STREET PHILADELPHIA

Postal Progress

Some months ago Mr. Herbert Myrick of the "Farm and Home," wrote a letter to Senator Lodge as to his attitude toward the Pope Parcels Post Bill, H. R. 7874 now before the House Postal Commitee with its rates:

3 oz. parcels . . .	1 c.
1 lb. parcels . . .	5 c.
2 lb. parcels . . .	25 c.

Mr. Lodge replied that he was in favor of a parcels post, but the deficiency in the postal revenues caused by the expenditures on the Free Rurul Service made it impracticable.

Postmaster General Wynne makes the deficiency for the past year	$10,000,000
1905	14,300,000
1906	13,000,000

The problem before the friends of an extended and cheap General Parcels Post, therefore, is how to put an end to this deficiency.

To accomplish this I propose a system of low local delivery rates like that of Germany and Switzerland: —

Local delivery rates of Germany, Switzerland and United States, in 1904.

LETTERS.

Germany	Switzerland	United States
City delivery, including neighboring places	Distances up to 6 miles	City and Rural delivery
	8 oz., 1c.	1 oz., 2c.
	Whole Country	
8 oz., 1c.	8 oz., 2c.	8 oz., 16c.

PARCELS OF MERCHANDISE.

Germany	Switzerland	United States
Distances up to 46 miles	General Rates	City and Rural Delivery
11 lbs., 6c.	1 lb., 3c.	1 lb., 16c.
12 lbs., 12c.	5 lbs., 5c.	2 lbs., 32c.
33 lbs., 18c.	11 lbs., 8c.	3 lbs., 48c.
44 lbs., 24c.	22 lbs., 17c.	4 lbs., 64c.
110 lbs., 60c.	33 lbs., 23c.	
	44 lbs., 33c.	

All Germany, including Austria-Hungary	Up to 62 miles
11 lbs., 12c.	110 lbs., 60c.

Swiss Library Post, to and from home and library.	United States
4 lbs., 3c.	4 lbs., $1.28

A German farmer, be he ever so humble, be he ever so far off the lines of general traffic, can send off his produce and secure his supplies at the rate of 11 lbs. for 6c., up to 46 miles, and 11 lbs. for 12c. within the limits of Germany and Austria. If an American would send off 11 lbs. of merchandise by post, he must divide it into three parcels and pay $1.76 for the service rendered.

In seventy-three thousand towns and villages the public fetch and carry all their mail to and from the post-office, notwitstanding the postage paid entitles them to free collection and delivery.

Where a city delivery service is organized, the work is done by walking postmen burdened like pack mules. On the other hand, the horse team of the Rural Posts, confined to letters, newspapers, magazines, 4 lbs. of merchandise parcels at 16c. a pound, carries loads hardly beyond the capacity of a wheelbarrow.

The teaspoon traffic of this horse-power machine makes it an expensive burden to the post-office and of comparatively little account to the public.

With the use of modern machinery — automobiles as well as horse teams — city and country — and with a system of low local delivery rates like that of Germany and Switzerland,

1 lb. parcels	1c.
10 lb. parcels	5c.
30 lb. parcels	10c.
50 lb. parcels	15c.
100 lb. parcels	25c.

we should have a free delivery service that would at least pay its way while it would be a source of infinite profit to the public.

Between the shoe towns of Massachusetts and Boston, boxes of shoes up to 50 or 60 pounds in weight are carried from the factory to the dealer in Boston, one box for 15c.; two boxes, 25c.; three or more boxes, 9c. per box; this including a trip of from ten to thirty miles. The local stage, Farmington, Conn., to Hartford, 9 miles way, carries laundry parcels, some of them 12 × 18 × 6 inches in bulk and close upon 25 pounds in weight, to and from the city laundry for 10c. The charge for carrying a 200-pound trunk from Eighty-fourth Street, New York City, to Park Row by express, is but 25c.

There can be no question that a system of local delivery rates such as we have suggested could be made to pay and pay well, this, too, with reasonable compensation for postmen.

A cheap local delivery service will at once make a cheap and extended General Parcels Post practicable.

This then is the suggestion I would make to the florists, the gardeners of the United States, and indeed to all of our people: Write to the candidates for the United States Senate in Massachusetts and throughout the country; write to the members of your different legislatures and to your Congressmen, asking them to secure for the United States a system of low, local delivery rates that will at once place the Free Rural service on a paying basis and prove of infinite value to the public.

Yes, and write to the President too, for I am sure that President Roosevelt is determined to place the Post-Office of the United States at the head of the civilized world.

And do not forget to write to the Secretary of the Postal Progress League and give him a bit of good cheer as he works for you. He cannot make bricks without straw and he cannot work for you successfully unless you provide him with fodder.

Sincerely yours,

JAMES L. COWLES, *Sec'y.*
THE POSTAL PROGRESS LEAGUE,
21 PARK ROW, N. Y. CITY.

Please let us have adv. copy and cuts early. Monday if you can, but not later than Wednesday morning *Please.*

C. G. Pringle, the botanical explorer, has returned to the University of Vermont after a long trip through Mexico, bringing a collection of 25,000 specimens of some 600 species of the flora of that country.

"Smith's Chrysanthemum Annual," an 86 page pamphlet by Elmer D. Smith, should be on the desk of every chrysanthemum grower. Every operation and every contingency in chrysanthemum culture from the stock plant to the prize plant or bloom on the exhibition table is treated in a plain but comprehensive manner by a man who understands his subject and knows how to tell the story. Price, 25 cents.

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The Glass Situation

The following statement regarding the glass situation at present is taken from the circular of a leading agent. We have interviewed the representatives of other prominent houses and their views coincide with the views herein expressed.

"It has apparently very suddenly dawned upon a number of buyers, during the past ten days, that the demand for window and greenhouse glass is in excess of the actual production. In place of any let-up, orders have increased in size and volume. The number of jobbers and manufacturers who, in their anxiety to get business, have almost hopelessly oversold, is daily becoming better known. Buyers who bought glass for "quick shipment" in November, in many cases will not get it until 1905. Production in many factories is disappointing, both as to quality and amount. Confidence in a continued, good demand and better prices is noticeable in all recent trade reports, circulars, and correspondence.

"One quiet meeting of the more influential outside manufacturers has been held, and another large one is being arranged for the near future. It is believed that the conditions warrant a sharp, healthy advance, which will meet general and enthusiastic coöperation by manufacturers, whether in or out of the present combination. The machine scare has been overdone. Prices are the lowest for many years, with stocks admittedly lower. When this situation becomes better known, what is the natural result?

"In view of the conditions and general trend of the market, we feel justified for the first time in years, in advising buyers to anticipate their wants on the above basis — delay is now dangerous, to say the least. In January, 1901, the price of window-glass was advanced 28 per cent; in March of the same year, another advance of 25 per cent took place, making 53.6 per cent in less than 60 days. The mistaken policy of these advances will not be repeated."

List of Patents Issued Dec. 13, 1904.

777,419, dated December 13, 1904. Appliance for Floral Decorations. Frances M. Hoyt and Grace Hoyt, New York, N. Y.



The invention consists of an improved means for suspending vases to contain flowers or small plants for decorative purposes.

It embodies a plurality of vases with a short cross-bar, a cord for suspending said bar at a point between its ends, and cords of different lengths for suspending said vases from different parts of the cross-bar and at different distances from the cross-bar, the points of suspension of the vase-supportin gcords being a sufficient distance on opposite sides of the suspending cord of the cross-bar to maintain the latter in horizontal position, and so that the longer vase-suspension cord will not interfere with the upper vase.

777,127, Heating and Ventilating System, Preston K. McMinn, Chicago, Ill.

777,366, Shears, Charles O. Bergmark, Chisholm, Minn.

777,391, Hoe, Adolph Abraham, Janesville, Minn.

777,567, Pruning Shears, Thomas M. Taylor and Eric C. Boeck, Medford, Ore., said Boeck assignor to said Taylor.

777,572, Fruit Picker, James Utterback, Honeoye Falls, N. Y.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G., Washington, D. C., by mentioning HORTICULTURE.

The two best scores made by members of the New York Florists' Bowling Club, December 19, were as follows:

O'Mara	118	181
Burns	154	153
Guttman	175	127
Burns, Jr.	123	154
Shaw	126	148
Donlan	107	153
Siebrecht, Jr.	120	92
Siebrecht, Sr.	126	148
Holt	124	131
Bach	130	134
Sampson	157	118
Fenrich	143	142
Manda	150	171

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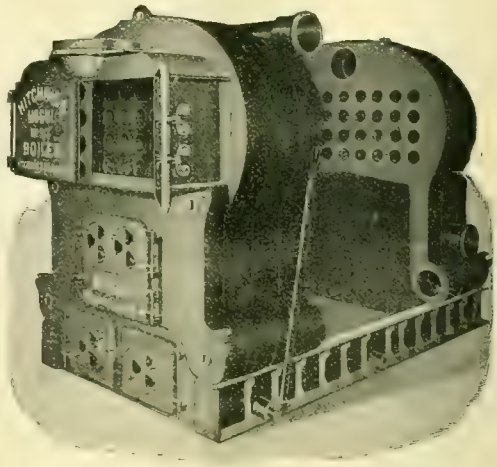
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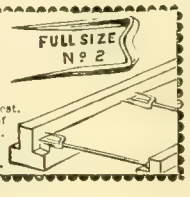
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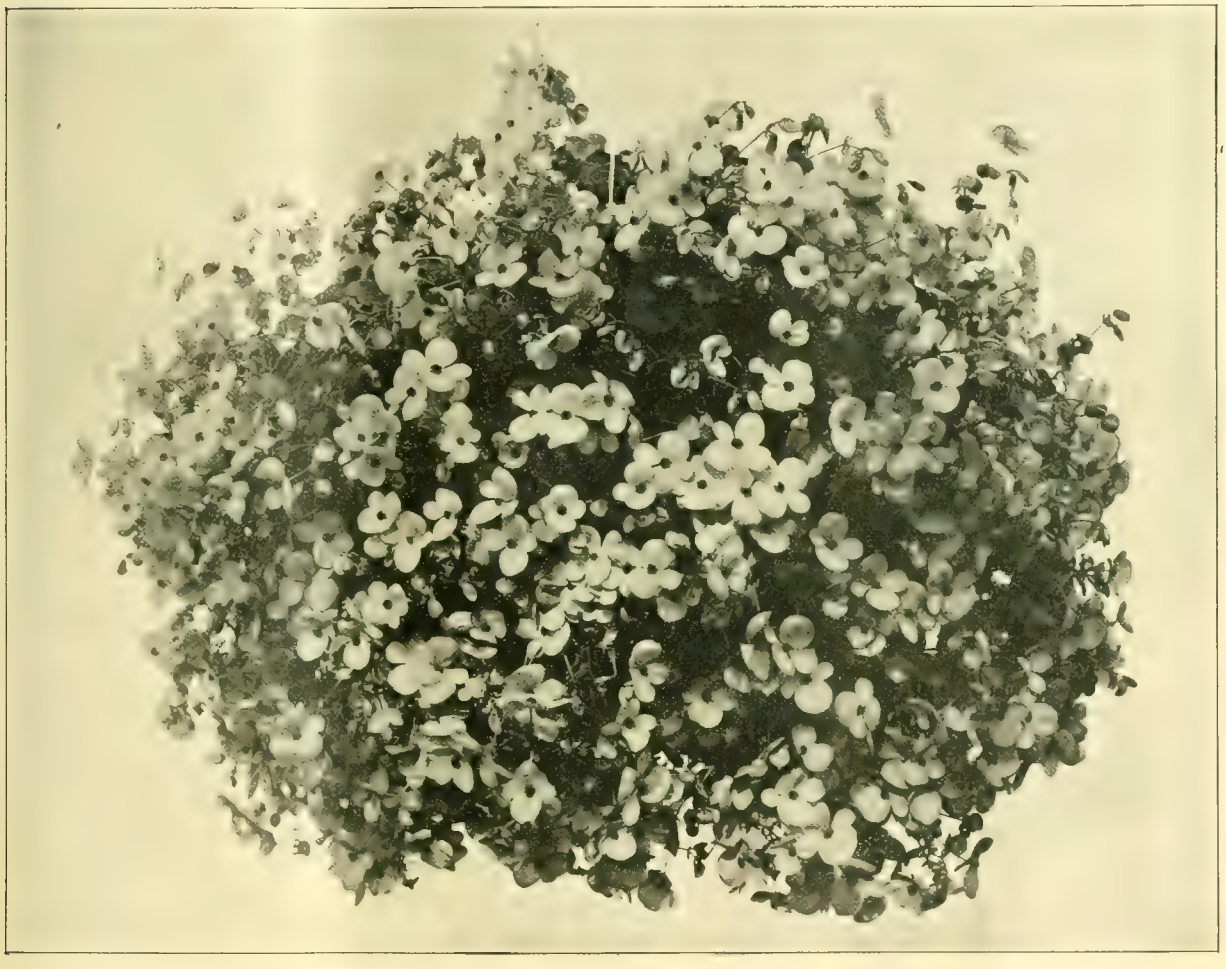
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HORTICULTURE

Vol. I DECEMBER 31, 1904 No. 5



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The beauty and value of this new fern to be introduced Spring of 1905 can best be appreciated by seeing it. It is a sport from the Pierson Fern (Nephrolepis Piersoni), but it is very much more beautiful and of greater commercial value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnae are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnae standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful—entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether, it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced. The cut fronds, on account of their beauty, will be in great demand for table decoration, design work, and for use in boxes of loose flowers. Well-grown plants make most magnificent specimens. We think there is nothing in the fern line that is so handsome as this beautiful fern when well grown. It is a wonderful improvement over Nephrolepis Piersoni in every respect, both in regard to beauty and habit of growth.

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Tarrytown-on-Hudson, NEW YORK

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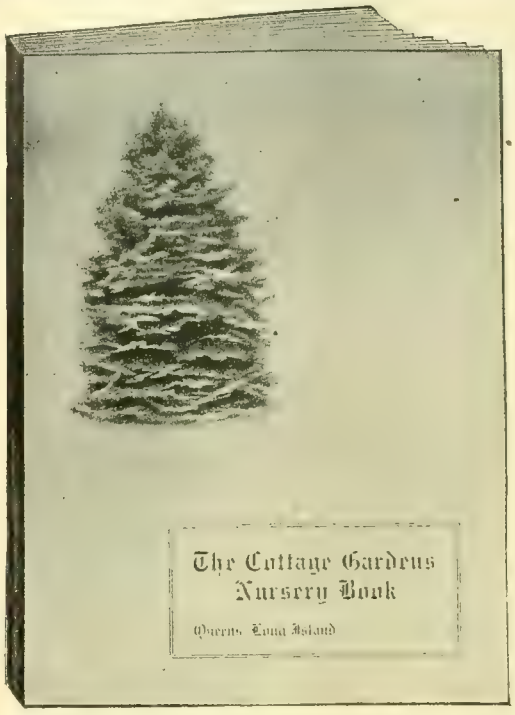
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M. H. Battles.

The Cultivation of Tomatoes Under Glass

Ripe tomatoes may be had any time of the year, if the cultivator allows between three and four months from the time of sowing the seed till the first fruits are required. Seed can be sown either in pots, pans, or flats, according to the quantity of plants required, filling them about one-third with broken pot shreds. Sift the loam through a fine screen, the rough portion of which can be put on top of the crocks, allowing room on top of that for about an inch and half of the finer soil, which should be mixed with about one-third of its bulk with fresh water sand. Fill the pot, pressing it moderately firm and making it as even as possible, to within about one-half an inch of the top. Water the same, giving it a good soaking, using a fine rose on the water pot. Sow the seed as evenly as possible and cover the same with about one-fourth inch of the fine soil place in a temperature of about 70°, and put a sheet of glass on top to keep it close and prevent evaporation. If it is in a house where it is exposed to the sun, a sheet of paper should be placed over the glass till the seedlings appear through the soil, which will be in a few days; then remove the paper and glass and expose them to the full light. Give water when necessary, by pouring it in gently on one side of the pot near the rim, filling it to the brim; this prevents knocking the young plants down and making the stems crooked, which if watered on top with a waterpot and rose it is sure to do. When the plants have got one rough leaf they should be potted singly into small thumb pots, using the same kind of soil as recommended for sowing. Give them a good watering and place them in a sunny position near the

glass, shading them for a few days until they are able to stand the full sun, when the shading must be removed. When they have filled these pots with roots they can be shifted into three inch; the soil this time can be a little coarser, without any sand, and using about one-sixth well rotted manure in the soil, and bury the stem of the young plants in this potting almost up to the seed leaf which helps to steady the plant and they will emit roots from the portion of stem buried into the soil. Give them plenty of room as they grow and when they have filled these pots with roots, they can be planted out in the benches eighteen inches apart, staking them at the same time and tying the top of the stake to the bottom wire of the trellis which should be about fifteen inches from the glass. Prepare the benches by placing a sod with the grass side down all over the bottom. Chop up your loam and mix the same with about one-fourth of well rotted manure, the latter from an old spent mushroom bed if it is procurable; if not, other manure will do, providing it is not too wet. Place this mixture on top of the sod, filling it to the top and about one-third the width of the bench; pound it down firm, which will then allow plenty of room for water without washing the soil over the sides of the benches. As the plants grow, keep them to one stem without stopping, right to the top of the house, taking out all the laterals or young growths as fast as they appear from the axels of the leaves. If this is neglected, the plants will soon smother one another and obstruct the light, consequently the fruit will be small, badly flavored and the ripening retarded. Going back to where I recommend filling the benches to one-third of their width, I have found that plan to answer well, for if they are filled to their fullest capacity when planting, it generally makes the vines grow too rank, consequently the fruit does not set so well. When the first portion of the soil is well filled with roots, a dressing of the same can be added from time to time until the benches are filled. After the plants have exhausted all the soil, they can be carried on for a considerable time in full bearing by watering them with liquid manure every time they require water, giving them sometimes a light top dressing of Clay's fertilizer and watering it well in, and also a weak solution of nitrate of soda, just for a change, which will help to swell the fruit.

Tomatoes should at all times have all the sun possible, for if grown in shady places the growths become long jointed and weak, and the fruit will not set. Air should be given in abundance on all favorable occasions; of course it depends on what season of the year they are being grown. If in the winter time, air must be given very judiciously and as much as is consistent with the outside temperature, but in the early summer it can be given very freely. They grow well in a night temperature of 65° and day temperature of 70° to 75°, with a proportionate rise according to the sun and outside temperature. When the glass reaches the latter figures, a little air should be given and increased by littles as the thermometer rises, being very careful with this in the winter time not to give too much when the weather outside is very cold, otherwise mildew and disease will soon follow. Never give front air in the winter time, but let it all be from the ventilators on the top of the house. In the summer time front and top air can be given freely. The foliage should never be wetted, but the plants should never suffer for water at the roots. Keep the floor of the house as dry as possible, especially in winter. This gives the pollen a better chance to distribute and set the fruit than if the air is charged with moisture. It is also not a bad plan to shake the plants a little every day in the morning when the sun is shining, for the same thing. If the foliage is very luxuriant, cut a few of the leaves in half near the bunches of fruit, to expose them to the sun, but do not carry this to excess.

It is hard to describe all the small details of the culture of anything on paper, as a man must work according to his conditions, using his judgment, which is only gained by experience and observation.



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ADVERTISERS — trustworthy
PROSPECTS — bright.
FRIENDS — everywhere.

FERNS



[No. 2.]

Lomaria and Blechnum are often by error taken one for the other. They have their fructifications in a long line on both sides alongside the mid-rib of the pinnæ. In Blechnum these lines are covered by an indusium and the fertile fronds do not generally differ from the others; in Lomaria they are all covered by the leafy part of the fertile fronds, which is curled up and makes these fertile fronds look different from the others; they are generally erect, with the pinnæ very narrow, and grow out in the center of the plant. They are nearly all of great decorative value, and widely spread all over the globe, therefore they require various treatments; those from Central America and warm parts of the South Sea Islands have to be grown in hothouses; those from New Zealand, Australia, and the southern part of America require cool houses, and a few of the northern hemisphere natives are hardy.

Among those that grow in cool houses are some of great value for their decorative qualities in apartments; they do not like to be raised in too much heat. Where syringing is necessary, the water standing overhead damages the fronds and under the same conditions, growing without sprinkling, they are apt to be attacked by thrips and red-spiders. Therefore an ordinary greenhouse treatment, with plenty of water at the roots and none on the leaves, is the best to grow them successfully. Half leaf-mould and half fibrous loam with some sand for Lomaria, and peat, loam, and sand for Blechnum are the compost they like.

The best ten varieties for apartment growing are the following: Lomaria gibba, the best known and the most cultivated, is much liked for its symmetrical growth, and the glossy green and elegance of its fronds. The young plants have their fronds generally erect and can be used in jardinieres as substitutes for young palms, being much more effective; in other plants when the stem begins to show the fronds grow more numerous, reaching about two feet long by six inches broad, of somewhat drooping habit, making beautiful plants for exhibition and for parlor decoration. There are a few forms of Lomaria gibba that have been raised from spores or imported from their native country, not much seen yet in cultivation. Some have the pinnæ forked, as Lomaria gibba crispa; some are tasseled, as Lomaria gibba Bellii; others are of gigantic growth, as Lomaria gibba platyptera, or the young fronds pink colored as Lomaria gibba rosea, — the latter much resembling

Blechnum Braziliensis from which it may be a hybrid. Lomaria magellanica — Zamioides or Boryana, not much in cultivation, grows wild from the West Indies to the Magellan Straits. It is one of the most distinct of the genus. It produces a stout, massive trunk, about two feet high, covered with black scales. The fronds are from one to two feet long, with naked stems, not very numerous, but nicely set, having the appearance of a little Zamia, and are of a shining green on the surface and light bluish green underneath. There are some forms found in South Africa that are quite distinct: Lomaria ciliata, from New Caledonia, is a rapid grower and of compact and elegant habit, the fronds of a light green color, and the pinnæ finely dentated, much resembling Lomaria gibba. There is in cultivation a stronger growing form, Lomaria ciliata gigantea and major, very effective. Lomaria ciliata is very much averse to moisture on the fronds.

Lomaria discolor is a nice little tree fern from Australia and New Zealand. The trunk is short and woody, and the fronds are grown in a massive crown. They are about two feet long, of leathery texture, dark green on the upper part and light green beneath, and the pinnæ are deeply cut. Lomaria discolor bipinnatifida from South Australia has the same appearance, but is much more cut, especially at the tops of the fronds, where they are sometimes crisped; the pinnæ are set near together, overlaping each other, and give the whole frond a fringed appearance. The plant produces fertile fronds as do all the Lomarias of that section, but the spores generally do not grow and the plant has to be propagated by side shoots. Lomaria discolor nuda from Australia, is like Lomaria gibba, a good plant to be used when young for jardinieres and table decoration. When grown, it is of compact habit, resembling much the preceding in the cut of the pinnæ, but is of lighter green color and thinner texture. It is easily propagated from spores. Lomaria discolor and its forms like to be grown in a cool place. There are many more trunk-growing Lomarias, but those enumerated are the best for apartment decoration purposes.

Among the underground stem species, Lomaria procera and its forms have the most decorative qualities. It is native in the West Indies. The fronds are long-stalked, with the leafy part of a heavy texture and elegantly pendulous. The pinnæ are large and undulated. The fertile fronds are long and erect and have the pinnæ very narrow. Lomaria chilensis or procera chinensis, a native from Chili, is a very strong grower and of gigantic habit. The fronds are of very heavy parchment-like texture, arching and numerous, and the pinnæ are large and close set, the fertile fronds being short. It is a very hardy plant and does not like heat; with a little protection it can be grown outside. It is easily propagated from the side shoots that grow plentifully from the roots. There are some forms of Lomaria procera from South Africa and New Zealand, good plants but not much seen in cultivation.

Lomaria aspera from Chili is a curious, good hardy fern, valuable for hanging baskets. The spreading fronds are long and very narrow and proliferous, growing young plants at the end of the fronds. The pinnæ are small and nearly round, closely set along the stem. This fern may be more curious than ornamental, but makes its effect in the right places. Lomaria attenuata, found in the West Indies, Central America and the South Sea Islands, has a thin, creeping, branching stem and on the top of each shoot grows a bunch of fronds one to two feet long of a heavy dark green texture and of a rosy color when young. This is excellent for hanging baskets, and when young, well furnished with arching fronds, is of good use for jardinieres.

Lomaria spicant, vulgarly known as hard fern, is a native from the whole Northern Hemisphere and its numerous forms can be utilized to great advantage for decorative purposes. Although it is a hardy plant, and therefore disliking heat, it is grown easily in cool houses and makes nice bushy plants. The first fronds are spreading and grow more erect with age. The fertile fronds are much longer than the others. This fern is easily grown from spores and likes a compost of a mixture of loam and peat, leaf mould and sand, in equal parts. It will not grow when lime is in the soil or water.

Blechnum Braziliensis, from Brazil and Peru, is a strong-growing little tree fern, the stem or trunk not more than three feet high, slender and bearing a crown of abundant fronds two to three feet long and about one foot broad, of a light green color. It is quite hardy in apartments and when young, if not crowded with foliage like the older plants, is especially adapted for a center plant in a jardiniere. Blechnum Braziliensis Carcovadensis, a form closely resembling the type in way of growing, has the pinnæ undulated and the young fronds of a beautiful copper red color when growing out. Both grow best in a mixture of loam, peat and sand, and are easily propagated from spores.

Blechnum occidentale from West Indies is dwarf, the fronds about one foot long, arching, of a shining green and pink colored when young. It is of a spreading and creeping habit, making a good plant for basket work. Blechnum glandulosum and Blechnum polypodioides are two other good species for hanging baskets, the latter having young fronds of a beautiful pink color.

Amédée Hans

SOME NOVELTIES OF 1905

There are a number of really good new plants available to the trade for dissemination during the coming season. For once at least, there is no need to have recourse to the perennial novelty lists of those



Nicotiana Sanderæ

European growers, certain German houses standing at the top, who serve up year by year numerous forms of aster, chrysanthemum, dianthus, eschscholtzia, phlox, reseda, scabious, zinnia and other annuals, of such slight variation from standard forms and usually of no improvement — that the imagination is strained to find excuse for their introduction as novelties. By way of illustration, the well-known White Mignon Aster may be cited. A few years after the introduction of this splendid variety, a certain German grower discovered in his fields a plant of this variety in which the foliage was somewhat lanceolate. There was no improvement claimed beyond this peculiarity of foliage, otherwise the two forms were identical. However, the "Lady in White" was sent out and heralded as a splendid novelty; to-day it is not heard of, while the Mignon is still popular.

This year there are several valuable novelties, more in fact than for a decade, or perhaps two.

Those who have seen the beautiful Nicotiana Sanderæ, with its magnificent sprays of lustrous rosy-crimson flowers, forming a compact bush two feet in height and rivalling Salvia splendens as an autumnal bedding plant, will readily appreciate the value and possibilities of this new variety. It is a plant for professional gardener and for the amateur as well, just as Nicotiana affinis has been, and a popularity like that of the Shirley Poppy is confidently predicted for Nicotiana Sanderæ.

Quite as good a plant for American gardens will doubtless be found also in Lobelia Tennoir, a species resembling in the delicate formation of its stems and foliage the slender appearance of the dwarf bedding lobelias, but growing to a height of twelve or fifteen inches, of erect branching habit, the sprays slightly arching and bearing a profusion of bright cobalt-blue flowers about an inch in diameter. Imagine the effect of a bed of white Geranium La Favorite with a few plants of this brilliant blue, tall-growing lobelia interspersed.

The Parisian Annual Wallflower has become popular for winter forcing as well as for cutting during summer. For the latter purpose it has been grown extensively in Newport. A form of this is now offered with flowers of a rich blood-red color, blooming quite as early and as easily forced as the brownish yellow variety.

To Prof. Engler, director of the Berlin Botanical Garden, is due the credit of discovering in East Africa a valuable new Balsam, Impatiens Holstii. It forms elegant bushes one and a half to two feet in height, not unlike the popular Impatiens Sultani, but of more rapid growth and with larger and more brilliant flowers, which measure about an inch and half or over, in diameter, and are bright vermilion in color. It is an elegant plant for pot culture and as a Christmas plant should prove of great value to our florists; it is also valuable for bedding purposes, in moist or partially shaded situations.



A Bed of Impatients Holstii
New Balsam from East Africa

The greatest advance in the aster family is a very early form named Debutante, pure white and delicately feathered, resembling the Comet type, but from three to four weeks earlier. Debutante flowers about the same time as Queen of the Market. As yet there is but one color; pink and light blue will undoubtedly follow in a few years, for these are the colors most desired.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

To him who has the best interests and future prosperity of the flower industry at heart, the news in our Christmas market reports to the effect that the practice of hoarding up flowers in the hope of forcing values up to a high figure for the holiday, seems to have been quite generally abandoned this year, comes as very pleasant reading. That we shall see no more of it is too good to be true, but it is evident that the worst is over and the flower growers themselves will be the greatest gainers.

We are always sorry when we see the florist or his calling vilified in the public press, but when the detraction emanates from one of the craft, it is doubly to be regretted. Granting to every man full freedom to pursue such business methods as he thinks will best promote his own interests, the line must be drawn at a just presentation of such facts as concern the welfare of others. We think we reflect the sentiments of all fair-minded people when we record our disapproval of the somewhat spectacular means adopted to advertise a recent venture in New York City. It seems to us that to use the columns of the daily papers for a public arraignment intended to prejudice the people against one's brother florists, and to seek to draw patronage by the report of a mythical organized movement on the part of one section of the business to put an end to the career of another department, is to go beyond the limits where any man can expect to retain the good-will or respect of his fellows.

The despotic power of the express companies is conspicuously manifested in the arbitrary rules enforced at the railroad stations, under dictation from the express people, whereby messengers bearing flower or plant packages are refused admission to trains. To insure their safety the florist is obliged, after sending valuable packages to the railroad station at his own expense, to provide a messenger to accompany them on the express car to their destination, and deliver them therefrom by private conveyance, but paying the same express charges as though the goods had been called for and delivered by the company in the ordinary manner, although to hand them over to the express for their handling and delivery would mean ruin to the goods and disaster to his business.

How long the influence of these corporations will suffice to prevent the adoption in this country of an efficient parcels post system such as is enjoyed abroad, remains to be seen. Foreign governments, which we like to speak of as inferior to our own, have given to their people systems of cheap parcel delivery that would be a great boon to the people of this country could we but have them. It is generally understood that the antagonism of the express companies is one of the main barriers to this reform. If this be the truth, it is time for the people to "get busy."

In our two preceding issues we recorded with much gratification, the fine exhibitions made on the occasion of the respective monthly meetings of the New York Florists' Club and the Gardeners' and Florists' Club of Boston. The many-sided value of such exhibitions does not appear to have been fully realized as yet, by the profession in this country. Abroad the exhibition idea has long been one of the bulwarks of progressive horticulture, and it is a promising augury that it now seems to be taking root here. These little semi-private affairs have a distinct value of their own as distinguished from the more pretentious public exhibitions which on not infrequent occasions have brought adversity to their supporters. There are none of the responsibilities and risks that attend the latter, but the advantages are equal or even greater. The interest engendered makes for the prosperity of the organization, the object lesson afforded by these demonstrations of what others can do is educational to the fullest degree, and the commercial advantage to the exhibitor who is in the market to sell, or to the visitor who wishes to buy intelligently, is very important, while the ambition to excel and the spirit of friendly emulation which is thus induced, furnishes the best sort of incentive to creditable and painstaking effort.

For a number of years our sense of color harmony has been somewhat jarred as we saw the pink azalea intrude itself among the scarlet trappings of the florists' Christmas window, but always with a feeling that the azalea was the aggressor, that it was usurping the place of something else and that its sense of propriety should have kept it in the background until after the Christmas festival, with its poinsettias, holly berries and scarlet carnations, had passed. But now comes the Lorraine begonia, equally incongruous in color, and takes possession of a large proportion of the florists' window. It is again pink and scarlet with their discordant effect, but with this difference — that the red seems the aggressor — and we find

House of Begonia Gloire de Lorraine



The illustration on this page affords a view in the house of Begonia Gloire de Lorraine, mentioned in our issue of last week, at the conservatories of Mr. J. Montgomery Sears at Southport, Mass., and our frontispiece shows a specimen plant from the collection. These plants have a circumference of 6 ft., 9 in., in the best developed specimens, and a height of 22 inches. Alexander Ogg, the gardener, is an expert plantsman and is a frequent contributor to the exhibitions of the Massachusetts Horticultural Society.

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ourselves wishing some one would make off with the red tissue-paper bells, immortelle balls and such gewgaws, put the poinsettias in the background and leave the field in undisputed possession of the pink flowers and whatever may harmonize with them.

It is possible the public is just a little wearied of the everlasting scarlet of the past few years and is ready to welcome a change. Certain it is that, in the better class of stores in the large cities, the fashions of late years in this respect are on the wane. The tissue-paper bells are left to the huckster, to keep company with the immortelle-studded evergreen wreath of a former period, and the bunches and wreaths of native holly have given way to the more beautiful imported hollies in pots of various sizes. If our conclusions are correct, the way is opened for the use of a wider diversity of plants and flowers at the Christmas holidays and more satisfactory conditions, from the florists' point of view.

Each year sees an enormous increase in the production of American Beauty roses for the cut flower market. The amount of new glass specially erected for its cultivation, and the old glass diverted from other purposes for this variety annually, would probably astound the most optimistic were it practicable to keep a complete record. That this rose held its own at Christmas so well in the wholesale markets all over the country, notwithstanding the increased production, is a striking testimonial to its overwhelming popularity. It is also worthy of notice that, as the reports come in from various sections, they indicate almost invariably the preference of the general public to buy the medium and choicer grades and an indisposition to take the inferior grades at any price. Since American Beauty came on the scene several new-comers have sought to divide the honors with it. The best that can be said of them is, "They also ran." Of all the roses now generally grown for cut flowers, American Beauty will in all probability be the last to fall.



New Crop Flower Seeds Just Received

Asparagus Plumosus Nanus
Per 100 Seeds, 75c.; $6.50 per 1000 Seeds

Salvia-Bonfire *(Clara Bedman)*
Per Trade Pkt. 40c.; $2.50 per Oz.

Verbena, Michell's Mammoth Fancy
Blue, Pink, Scarlet, Striped White, and all colors mixed
Per Trade Pkt. 30c.; $1.50 per Oz.

Our Wholesale Price-List of Flower Seeds now ready

Henry F. Michell Co., 1018 Market Street Philadelphia, Pa.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Dear Sir: — I am in receipt of several copies of HORTICULTURE, and think it is just what is wanted; it is crisp and bright in all its details. — E. H.

Let me congratulate you at this late date for your successful launch of HORTICULTURE; it is a clean cut, up-to-date, good print, and everything else that is good, and the making of a valuable addition to what is already published. — P. B.

At first I was doubtful about subscribing for HORTICULTURE, but I cannot resist doing so now, it is so bright, so attractive, and I have no doubt that I shall look for every number with pleasure as I do in other three trade papers. Put me down as a subscriber until death us do part, or that I haven't a dollar to a my subscription, and then I'll call on you for one. I sincerely hope that this, the first forthcoming New Year for HORTICULTURE, may prove a very successful one. — F. J. F.

After Adjournment

Happy New Year!

"May prosperity never make us arrogant, nor adversity mean."

We wish all who read these lines, uninterrupted prosperity for 1905.

Only one dollar for fifty-two numbers of HORTICULTURE. Little for you, but if you all come in, it means much for us. Let each one do his share, and the more there are, the better paper we can give you.

A Worcester, Mass., daily paper, in an article on Christmas plants and flowers, gets itself tangled up after the usual fashion with reporters who venture into the domain of floral description. It tells us that "There are also freak roses, one of these being known as the bride. It is the result of a grafting made by a Worcester florist, who has not only produced a novelty in coloring, but a bloom that suggests three or four floral species."

Compliments of the season to the Worcester florists, who always were great people.

A Christmas Conservatory

I would tell of the surprise experienced on a visit to Mr. George McWilliam, gardener on the estate of Mr. George M. Whitin, Whitinsville, Mass., who has arranged his plants in exhibition form, and they make a gorgeous display, once seen, never afterwards forgotten. Among them are over one thousand spikes of calanthe, varying from thirty to seventy-five blooms on each spike (a low average is forty-five blooms on each spike). This means at least forty-five thousand blooms, open, of this chaste and beautiful orchid, of which nine distinct varieties are displayed. They are artistically arranged so that the whitest varieties are along the lower part of the benches, the pink ones being raised at the rear, with their graceful arching spikes curving inward, producing a rich blending of brilliant colors. Of cypripediums there are over fifteen hundred blooms intermingled in the display, the general effect being heightened by large numbers of Dendrobium formosum giganteum, some having bulbs thirty inches long, crowned with a cluster of twelve blooms, a perfect bouquet in itself.

For many years it was the general opinion that this plant became exhausted in three years, never to bloom again, but Mr. McWilliam has by careful study of its nature so upset this theory that he points with a good degree of satisfaction to plants now as vigorous as ever, in full bloom, which have been under his culture nineteen years and that have never once missed blooming. Some Lælia anceps and other orchids in smaller numbers are also in full flower, and there are over two hundred poinsettias, many bearing heads eighteen inches in diameter, also great numbers of Luculia gratissima, its full, round clusters making a grand display, while its peculiar rose madder tint of pink gives it distinction even among thousands of other pink blooms. Many plants of Linum trigynum, with their pure yellow flowers are a splendid contrast, especially as they are grouped in large masses.

CHARLES STORER.

Enlarge your market and increase your income by generous advertising in HORTICULTURE.

Out of the Bean Pod

"And better had they ne er been born,
Who read to doubt, or read to scorn."

A new store under the title of "La Fleuriste" has been opened at 565 Tremont Street, Boston.

Acacias, snap-dragons, corn flowers and sweet peas were all seen in the Boston Christmas windows. As for the Hub, it is always true that

"Age cannot wither her, nor custom stale
Her infinite variety."

"California's botanical wizard is too practical to waste time on blue roses. He has already produced many valuable varieties of fruit, and even hopes to improve on the Boston bean." — *St. Louis Globe-Democrat.*

He simply cawn't do it. — *Boston Transcript.*

"After the forever-and-forever daisy has become perfected and the plants become common, it may be one of the most cherished of heirlooms. The man of family tree may, in future years, point to his little plant with pride, as he would to an old painting or a suit of armor." — *Boston Journal.*

"A man out on the Pacific coast claims to have found a flower that will not fade. We hope he will keep it there, and not try to get it grown in the East. If flowers were fadeless, all poetry and romance would have to be rewritten. "The Last Rose of Summer," and hundreds of others — how could we get along without these? And the florists, what on earth would they do for a living? — *Boston Record.*

Visitors in Boston — Edward Kirk, Bar Harbor, Me., and Chas. Fohn, Hartford, Conn.

A Correction

Mr. Finlayson calls our attention to some typographical inaccuracies in his Random Notes as printed in our last issue. In describing Cotoneaster "baywood-like leaves" should read "boxwood-like leaves." Climatic constitutions" should be "climatic consdition," and the "Countess of Bromarty" should be "Countess of Cromarty."

Anemone Japonica



The varieties of Anemone Japonica are among the most desirable of our hardy perennial plants. Commencing to flower in August, they continue to increase in beauty until cut down by heavy frost late in the fall, frequently flowering as late as the middle of November. They delight in soil well-enriched, dug over at least from eighteen inches to two feet deep and well manured with rotten cow manure. They will thrive in any sandy loamy soil; in fact, they will succeed in almost any porous soil, and when once planted under such conditions they can remain for many years on the same place without disturbing. I have known one group planted at Lenox, Mass., to remain ten years without being transplanted and having flowered every year from August until cut down by frost. When these plants are transplanted they will bloom the first year fully three weeks later.

I have found that in our Eastern states the plants will do decidedly better where they are protected from north winds. As hardy as they have proven, they must have a protection of a good layer of leaves, with long manure or hemlock branches to keep the leaves in place. This is done as soon as the ground is frozen. The protection is removed in early spring as soon as there is no more danger of heavy frost. During the hot and dry summer they should be kept well watered.

There are at that season no flowers that will give more pleasure and satisfaction for cutting and general decoration than the many varieties with varied colors that the grand collections of the present time afford. It seems to me very strange that in this country these beautiful and useful flowers have not found a more extensive field among the growers for cut flowers. In former years, say ten years ago, we were limited to three or four varieties, all of which are still in great favor, and at this time the family has grown very numerous.

Anemone Japonica elegans is the oldest, with broad leaves and pale rose-colored flowers which are three inches across and attain a height of four feet. It is, in fact, the strongest grower and a very profuse bloomer. This is also called rosea hybrida, and is very rarely seen among collections here. A. J. alba, also called Honorine Jobert, is a splendid variety with a profusion of large pure white flowers. The flowers are from two to three inches across, with a dense center of lemon-colored stamens. It is an invaluable variety and will always be in great favor for its prolific blooms. Anemone J. elegans rubra is a semi-double red, which is a great contrast with the above one. It is also a profuse bloomer and attains, as the above one, three feet in height. The Whirlwind also, a semi-double variety, pure white, is a strong and profuse bloomer, four feet in height and one of the best.

Lady Ardilaun is a very exquisite white with a double series of petals, with a strong stiff flower stem, but fails in profuseness of flowers. Lord Ardilaun is another beautiful, large white flower; the foliage and bloom are larger than the above, but is a shy bloomer. A. J. rosea superba, a great improvement over the variety elegans, bears flowers much larger, and is a profuse bloomer, three feet in height. A. J. Coupe d'argent, has double white flowers with strong and robust growth, and is a very distinct variety. Queen Charlotte, is a large, semi-double rose flower, underside dark rose, and is a very strong and robust grower. This was introduced by Mr. Pfitzer of Stuttgart, Germany, only four years ago.

A. J. Collerette, is a double creamy white imbricated flower, medium growth, A. J. Profusion, is a dwarf, profuse bloomer, with large, beautiful rose flower and is fine for an outside border. A. J. elegantissima attains a height of three to four feet producing a quantity of flowers with two rows of petals of a beautiful silky rose. A. J. Beauté Parfaite, is a large pure white of great merit.

A. J. Mont-Rosa bears flowers attaining three to four inches in diameter, well formed, of more than a hundred undulated, cucullated petals in a more or less regular disposition of four to five rows of petals, color a tender rose with the points rose carmine. A. J. Prince Henri, is a double red flower, one of Pfitzer's, two feet high.

A. J. Rose d'Antonne, is a new one, flower large, double, formed of forty petals in four rows, well imbricated; color, rose-lilac, on the reverse rose-reddish. It is a very fine grower about two or three feet high. A. J. Vase d'argent, is a variety with erect stem, flower silvery white with rose reverse, very large, nearly double, having nearly the form of a cactus dahlia. A. J. Soir d'été bears flowers very large, nearly double, with five to six rows of petals well imbricated, of a tender rose in the interior and purplish at the exterior. This is a grand new one. Another good new one is A. J. Turban, flowers having three to four rows of petals, rose wine color. This is a vigorous, profuse flowering plant. A. J. Le Nain Rose bears a large double, flat flower, color rose-lilac, punctuated violet. The plant is quite dwarf, very robust and vigorous, forming large clumps covered with a profusion of flowers. This is a very unique, grand, new variety.

The above described varieties with the exception of the three original Japanese and two varieties introduced by Pfitzer of Stuttgart have been introduced by the celebrated and successful hybridizer, V. Lemoine of Nancy, France. To him we are indebted for the many varieties which have proven so valuable to horticulture.

I am adding every new variety that is introduced. The reproduction of this class is a very easy one by root cutting. The proper time is during the middle of November. The divisions are placed in flats or pans in deep frame or cool greenhouse, and planted out at the end of April or beginning of May.

J. F. Huss.



In Writing Advertisers Kindly Mention HORTICULTURE

Business Changes

H. G. Maxiner has opened business at 345 Pine Street, Williamsport, Pa.

H. H. Berger & Co., 47 Barclay Street, New York, has been incorporated.

L. K. Peacock, Inc., has been incorporated at Atco, N. J. Capital stock, $50,000.

Lloyd Swarthout, Washington, Pa., has disposed of his business to Jos. Seaman & Co.

The Aurora Greenhouse Co. has opened business at Aurora, Ill., under favorable auspices.

William Clark of Colorado Springs, Colo., has sold out his business to his son-in-law, J. B. Braidwood.

The Planters' Seed Company has opened business at Springfield, Mo., with Frank W. Maas as manager.

John Westere has bought out the South Chicago establishment of L. Mosback. The latter continues business at Onarga.

Van Aken Bros., whose greenhouses are at Coldwater, have opened a store in Elkhart, Ind., with Miss Jessie Sweatland in charge.

Frank Hamilton, for several years superintendent of Bronx Park, New York, has entered the Cottage Gardens Company as manager of its landscape and nursery sales department, having purchased a substantial interest in the concern. Mr. Hamilton leaves his duties at the park with the highest esteem of the park authorities, as evidenced by the congratulations extended to Cottage Gardens on their good fortune in having secured the interest of so capable a manager. The department will be materially strengthened under Mr. Hamilton's direction.

Greenhouses Building or Projected

MANVILLE, R. I.— George H. Thayer, one house.

HONESDALE, PA. — E. C. Boss, house 25 by 73 feet.

BLACK ROCK, CT. — Miss S. J. B-ra tram, conservatory.

KALAMAZOO MICH. — G. Van Bochove & Bros., six houses, each 28 by 300, and boiler house.

List of Patents Issued Dec. 20, 1904

777,897, Cotton-Picking Apparatus, Barnwell R. Heyward, Albany, N. Y.

777,963, Weeder. Elijah Link, Piqua, Ohio.

778,089, Shears. Walter E. Wahlin, Fairview, Utah.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G., Washington, D. C., by mentioning HORTICULTURE.

At the meeting of the Illinois State Horticultural Society on December 15, Leonard Vaughan of Chicago read a paper on Commercial Floriculture, and William Toole one on Pansy Culture, making a welcome relief from the monotony of fruit talk.

News Notes

John J. Doyle of the Portland (Me.) Floral Company, is reported dangerously ill.

A water tank at the establishment of E. G. Asmus' Sons, Closter, N. J., was burned on December 20.

A greenhouse belonging to Mrs. Ewing at Riverdale Ave. and 235th Street, Kingsbridge, N. Y., was burned on the morning of December 22d. Damage, $1,500.

The greenhouses of C. Peseneker & Son, Jersey City N. J., were entered and robbed of the carnation blooms on Friday night, December 23, a little before midnight.

Fiancee and Cardinal, intended for exhibition at the last meeting of the Gardeners' and Florists' Club of Boston, arrived one day late, but in splendid condition, and as seen in the refrigerator at the Flower Market were a feast for the eyes.

Among the victims of the conflagration that visited Columbus, O., on the morning of December 21st, were Groff Bros., the florists, whose loss on stock and fixtures is estimated at $1000. Only partially insured.

A public project of great magnitude is under consideration by the city government of Springfield, Mass., and the N. Y., N. H. & H. railroad officials, which will mean the expenditure of approximately $3,500,000 in civic improvement, including the development of a picturesque park and boulevard on the shores of the Connecticut river.

VARIEGATED LAWSON



The "Variegated Lawson" carnation which is herewith illustrated, originated with W. B. Arnold of the Rockland Greenhouses, and is to be introduced by that gentleman this season. Exhibited at the meeting of the Gardeners' and Florists' Club of Boston last week, it was much admired and received a certificate of merit. A short time ago the garden committee of the Massachusetts Horticultural Society visited Mr. Arnold's houses and made a very complimentary report on the variety as they found it under cultivation. It has all the good points of Lawson with more fragrance and has never been known to burst.



HOUSE OF VARIEGATED LAWSON
At Rockland, Mass.

If you have
Carnations
to sell or
Novelties
in
Carnations
to
Introduce
Let
us
hear
from
you
We will give you a
Good send-off

Directory of Clubs and Societies

Secretaries are respectfully requested to promptly notify HORTICULTURE of any changes of officers of their respective societies.

CINCINNATI FLORIST SOCIETY, Cincinnati, Ohio. — Pres., Benjamin George; Vice-Pres., Gus Adrian; Sec'y, Geo. Murphy; Treas., J. W. Rodgers. Meetings second Saturday of each month, three exhibitions held each year.

CANADIAN HORTICULTURAL ASS'N. — Pres., G. A. Robinson; 1st Vice-Pres., W. Suckling; 2d Vice-Pres., C. G. Johnson; Treas., H. Simmers; Sec'y, A. H. Ewing. Next annual meeting in Montreal, probably in August.

COLORADO SOCIETY OF FLORICULTURISTS, Denver, Colo. — Pres., John Satterthwaite; Treas., Mrs. J. M. Johnson; Sec'y, J. A. Valentine. Annual meetings, third Thursday in January.

THE DETROIT FLORIST CLUB, Detroit, Mich. — Pres., Robert Watson; Vice-Pres., L. Bemb; Treas., Walter Taepke; Sec'y, J. F. Sullivan; Librarian, Norman Sullivan. Meetings first and third Wednesday of each month.

THE GARDENERS' CLUB OF BALTIMORE, Baltimore, Md. — Pres., John A. Cook; Vice-Pres., Fred C. Bauer; Rec. Sec'y, John J. Perry; Fin'l Sec'y, Philip B. Welsh; Treas., Fred G. Burger; Librarian, Chas. M. Wagner. Meetings second and fourth Monday of each month.

FLORISTS' CLUB OF PHILADELPHIA, Philadelphia, Pa. — Pres., John Westcott; Vice-Pres., David Rust; Treas., J. W. Colflesh; Sec'y, Edwin Lonsdale. Meetings first Tuesday of each month.

MILWAUKEE FLORIST CLUB, Milwaukee, Wis. — Pres., W. A. Kennedy; Vice-Pres., Fred H. Holton; Sec'y, Herman V. Hunkel; Treas., C. Dalwig. Meeting first Tuesday of each month.

MASSACHUSETTS HORTICULTURAL SOCIETY. After January 1, 1905 : — Pres., Arthur F. Estabrook ; Vice-Pres., Robert T. Jackson; Treas., Chas. E. Richardson; Sec'y, Wm. P. Rich.

MONTREAL GARDENERS AND FLORISTS' CLUB, Montreal, Can. — Pres., Jos. Bennett; 1st Vice-Pres., Alex Gibb; 2d Vice-Pres., A. Walker; Sec'y-Treas., Wm. H. Horobin.

TARRYTOWN HORTICULTURAL SOCIETY, Tarrytown, N. Y. — Pres., James Ballantyne; Vice-Pres., Joseph Bradley; Sec'y, Edward W. Neubrand; Cor. Sec'y, Thos. A. Lee; Treas., James T. Lawrie. Meetings last Thursday of each month.

MONMOUTH COUNTY HORTICULTURAL SOCIETY, Oceanic, N. J. — Pres., Wm. Turner; Vice-Pres., George Hale; Sec'y, H. A. Kettel; Fin'l Sec'y, Geo. R. Kuhn; Treas. W. W. Kennedy. Meetings first and third Fridays of the month; annual exhibition early in November.

TUXEDO HORTICULTURAL SOCIETY. — Pres., Wm. Hastings; Vice-Pres., Thos. Murray; Sec'y, James MacMachan Treas., George Stewart. Meetings first Tues. after the first of each month.

THE WESTCHESTER COUNTY HORTICULTURE SOCIETY, Mount Kisco, N. Y. — Pres., A. L. Marshall; Vice-Pres., Wm. Wills, Katonah; Sec'y, Herbert A. Spavins. Meets every month; annual reunion at Mount Kisco.

INTERNATIONAL SOCIETY OF ARBORICULTURE, Connersville, Ind. — Pres., Wm. J. Palmer; Sec'y-Treas., John P. Brown.

NEW BEDFORD FLORIST CLUB, meets second Thursday of each month.

NEW ORLEANS HORTICULTURAL SOCIETY. — Pres., Harry Papworth.

NEBRASKA FLORIST SOCIETY, Omaha, Neb. — Pres., W. R. Adams; Vice-Pres., George Soranson; Sec'y, Lewis Henderson; Treas., George Swoboda. Meetings second Thursday of each month.

ST. LOUIS FLORIST CLUB. — Pres., J. J.Beneke; Vice-Pres., Wm. Winter; Sec'y, Emil Schray; Treas., Otto Koenig.

SOCIETY OF IOWA FLORISTS, Des Moines, Ia. — Pres., J. T. Temple; Vice-Pres., R. L. Blair; Sec'y, Wesley Greene; Treas., G. A. Heyne.

UTICA FLORIST CLUB. — Pres., F. J. Baker; Vice-Pres., Seward Hakes; Sec'y, J. C. Spencer; Treas., C. F. Seitzer. Meeting first Thursday of the month; Chrysanthemum meeting in November; Carnation meeting in February; annual outing and clambake in August.

HOLYOKE HORTICULTURAL SOCIETY, Holyoke, Mass. — Pres., E. A. Reed; Treas., Chas. E. Mackintosh; Sec'y, Geo. H. Sinclair. Meetings first Wednesday in the month; Exhibition, Rose show in June.

IOWA STATE HORTICULTURAL SOCIETY, Des Moines, Ia. — Pres., P. F. Kinne; Vice-Pres., W. A. Burnap; Sec'y, Wesley Greene; Treas., Elmer M. Reeves. Annual meeting at Des Moines, Dec. 13–16, 1904.

NORTH SHORE HORTICULTURAL SOCIETY, Manchester, Mass. — Pres., P. R. Sanborn; Vice-Pres., W. B. Jackson; Treas., James McGregor; Sec'y, James Salter; Fin'l Sec'y, Herbert Shaw. Meetings first and third Fridays of each month.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY. — Pres., R. P. Pryde; Vice-Pres.,Thos. Pettit; Sec'y, Patrick Keane; Treas., David Kydd. Meetings first and third Tuesday of the month

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Let us get together.
Right quality? Right price? Then advertise it in HORTICULTURE. That's the way to "get there."

ADVERTISEMENTS
FOR
NUMBER
SIX

Should reach us by Monday, January 2, if possible, or Tuesday, January 3, at latest.

In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment.

News of the Clubs and Societies

At the next meeting of the Pittsburg and Allegheny Florists' and Gardeners' Club, Jan. 3, 1905, nominations of officers will be held.

The inaugural meeting of the Massachusetts Horticultural Society for the year 1905 will be held at noon on Saturday, January 7, at Horticultural Hall, Boston.

At the meeting of the Rhode Island Horticultural Society on December 21, Prof. F. W. Card gave a lecture on the San Jose scale and other insects injurious to fruit culture.

J. A. Newsham gave a talk on the new introduction in chrysanthemums at the December meeting of the New Orleans Horticultural Society. A handsome specimen of Adiantum hybridum was shown by C. W. Eichling.

The New Haven County (Conn.) Horticultural Society listened to a talk on hardy perennial plants by Charles Kern, assistant superintendent of parks, at its meeting on December 20. The report of the recent exhibition was presented and showed a balance to the good, which was very satisfactory. Election of officers takes place on the first Tuesday in January.

The program of lectures and discussions to be held at Horticultural Hall, Boston, during the season of 1905:

January 14. — "Some Recently Introduced Weeds." By Merritt L. Fernald, Cambridge.

January 21. — "Forest Planting for Profit in Massachusetts." By Theodore F. Borst, Boston.

January 28. — "General Discussion on Fruit." To be opened by E. W. Wood, West Newton.

February 4. — "Findings of an Orchard Survey in Western New York," with stereopticon illustrations. By Prof. John Craig, Ithaca, N. Y.

February 11. — "Dwarf Fruit Trees: their Uses, Propagation and Management." By Prof. F. A. Waugh, Amherst.

February 18. — "Bacteria as Fertilizers," with stereopticon illustrations. By Dr. George T. Moore, Washington.

February 25. — "General Discussion on Flowers." To be opened by J. Woodward Manning, Reading.

March 4. — "Some Aspects of Hardy Flower Culture." By A. Herrington, Madison, N. J.

March 11. — "The Return to Nature." By Miss Maud Summers, Cambridge.

March 18. — "General Discussion on Vegetables." To be opened by W. W. Rawson, Arlington.

The following are the awards made by the Garden Committee of the Massachusetts Horticultural Society for the season of 1904:

House of chrysanthemums arranged for effect with other plants — First prize, Mrs. C. C. Converse and Mrs. Lester Leland, Malden (David F. Roy, superintendant), $40; second prize, H. H. Rogers' estate, Fairhaven (James Garthley, gardener), $20.

House of chrysanthemums grown on benches — First prize, M. F. Plant estate, Groton, Conn. (Thomas W. Head, superintendent), $40; second prize, Mrs. C. C. Converse and Mrs. Lester Leland, Malden, $20.

House of palms and foliage plants — First prize, Joseph H. White estate, Brookline (James Wheeler, gardener), $30; second prize, Mrs. John L. Gardner estate, Brookline (William Thatcher, gardener), $20.

House of carnations — First prize, M. F. Plant estate, $30; second prize, Edward A. Clark estate, Jamaica Plain (William A. Riggs, gardener), $20.

House of roses — First prize, M. F. Plant estate, $30; second prize, Joseph H. White estate, $20.

In addition, gratuities of $10 each are awarded to W. G. Winsor, Brockton, for a dahlia garden; N. B. White, Norwood, for efforts in hybridizing and improving the grape; H. A. Stevens Company, Islington, for mushroom house, and T. D. Hatfield, Wellesley, for superior care in maintaining the standard of the Hunnewell estate.

Honorable mention is voted to Charles W. Parker for his estate at Marblehead Neck, and the Mrs. J. L. Gardner estate at Brookline is reported favorably on its first year's entry for the Hunnewell triennial premium.

The garden committee for 1905 has been appointed by the board of trustees, as follows: Oakes Ames, chairman; Charles W. Parker, Arthur H. Fewkes, John A. Pettigrew, Henry P. Walcott, William N. Craig, William P. Rich, George Barker.

Widespread and incessant publicity is to-day essential to success. Look well to your advertising.

SEEDLING ROSE

Raised by Peter Bisset



The seedling rose, herewith illustrated, is a cross of Liberty on Mme. Abel Chatenay raised at Twin Oaks, Washington, D. C., by Peter Bisset. The flower is a fine deep pink of unusual shade and is a good keeper. Mr. Bisset expresses the opinion that it will prove a good commercial cut flower variety, being a very free bloomer.

CHRISTMAS MARKET REPORTS

Holly, smilax, mistletoe,
Decorations, up they go!
Leave your irritation where
'Twill be comrade for your care;
Into trouble's ample pouch
Stow away your ugly grouch;
Leave behind your frown and scowl;
Put away each sneer and growl,
Angry fling and fretful word,
Put them where they won't be heard.
Holly, smilax, mistletoe,
Decorations, up they go!
No one wants amid such scenes,
Vinegar on Christmas greens.
—*Indianapolis News.*

Christmas in Boston

The demand for holly, laurel, pine and wild smilax and other kinds of Christmas greens was remarkable, far surpassing that of previous years. As in other markets, the average grade of holly was not up to grade, but the curtailment of the supply due to the demands of the railroads for advance guarantee of transportation charges left less opportunity for choosing, this year, and the stock was nicely sold at good figures. Considerable holly arrived too late also, and thus lost its market. This was due to the interruption of through New England traffic by the action of the Pennsylvania railroad. The Merchants and Miners proved to be the most reliable route for freight from the South.

In flowers the high-colored goods were, as usual, most in demand at the wholesale markets. The highest price obtained in Boston for American Beauty roses was $100 per hundred. From this they graded down to as low as $8 a hundred for inferior stock. Liberty was a fine seller, and while $50 a hundred was a good price for prime flowers, yet a few of the top-notch grade brought double this figure. Meteor and Queen of Edgely shared in the prosperity that came to colored material. Bridesmaid sold all the way from $3 to $25 a hundred, the best call being for the medium classes usually graded as extra and No. 1. The smaller stock, short stemmed, off-color or unfresh, was immovable; nobody wanted it at any figure. In fact, the choice grades had the call uniformly all through the cut flower list, even among the ordidary classes of buyers.

In carnations, the brisk demand extended over the entire week from Monday until Saturday. Lawson, all scarlets and dark reds had the preference at from $4 to $6 per hundred, and Enchantress and Fair Maid brought about the same prices although with less alacrity. White varieties moved slowly at $3 to $4 per hundred. The demand for violets kept well up with the supply all through the week, single having the call over the double varieties, the latter selling at from $1.25 to $1.50, while the former brought $1.50 to $2. Poinsettias as cut flowers were practically a failure. These are wanted only in growing form.

The usual stagnation existed in the bulb stock sale. Roman hyacinth had a feeble sale at $1.20 to $1.50 per hundred, with a few choice lots at $2, and paper white narcissi went about the same. Lily of the valley was not used to the extent of former years. The price ranged from $3 to $5. A few lots of yellow narcissi appeared in the market at the end of the week and were sold at $4 and $5. Smilax was not especially called for, neither did asparagus experience anything beyond the ordinary demand.

The above remarks, while applying primarily to the wholesale markets, about size up the situation from the standpoint of the retail stores, also. As heretofore, the flower sales were rather insignificant in advance, most of the activity being in the line of plants. White flowers were, as a rule, unsalable, lilies, hyacinths and white carnations being thoroughly stranded. Lily of the valley was the only white bloom that received any encouragement. The sale of violets was immense. These, with American Beauty roses led everything else in the popular estimation. The plant sales were larger than ever at Christmas, but the line was drawn at palms or other flowerless plants. Azaleas — the colored varieties — Lorraine begonias, ardisias and cyclamens had the lead. Poinsettias fell off considerably from their record and from the preparations made for them. Jerusalem cherries, which sold very well last year, fell behind-hand and the white azaleas, of which a few were used for the sake of contrast still remain in the store windows bearing mute witness to the public's prejudice against anything white at Christmas.

The weather was steadily cold and clear. "For this relief, much thanks."

Philadelphia Christmas Report

Beauty roses were in fine demand and 25 to 50 per cent better in price than last Christmas; quality very good; supply under the normal on account of some of our larger growers being off crop. Liberty was in equally good demand, and, like all red flowers, brought prices above the normal; many orders had to be cut 25 to 50 per cent and some late ones turned down entirely. Quality good; some extra fine ones brought $9 a dozen. Bridesmaids sold very well all through — much better than Brides did. Quality good, although not as good as in former years; I think these two roses must be deteriorating and that there will be need of new blood here soon; prices were about as good as usual. Golden Gate was in good shape and not over-plentiful and sold well at about the usual Christmas prices. There was very little salted stock among these or among any other varieties of roses. Pity the same cannot be said of the carnation market.

Red carnations were in great demand and very scarce; brought big money. Stroud's Flamingo were very fine and brought as high as $2 per dozen; other good sellers were Prosperity, Enchantress, Genevieve Lord, Lawson, and Harry Fenn. Fenn is a rattling good keeper and has become a great favorite among the retailers here; it is a trifle smaller than Lawson or Harlowarden, but is very bright, lively crimson and a steady bloomer. Whites hung fire, and were hard to move. Pinks went better. Some of the growers allowed the flowers to stay on the plants too long and they were soft when they got in. This is not "salting," but just as bad — perhaps worse. It would be far better to run short than to ship stuff to customers in that soft state — they look all right when delivered, but will probably be all asleep by morning. Now, with salting you can cut a green carnation and salt it away and it may open up all right and harden so that it will really keep better when delivered than the soft stock newly cut. This refers more especially to whites this year and only touches a few of the growers. Both sugaring and salting are bad practices that ought to be prohibited!

Lilies, only a few and all sold in advance; many more could have been sold. Roman hyacinths and narcissi went fairly well, but no advance in prices. Lily of the valley was fine and in good demand at normal prices. Violets nothing wonderful. Saturday was a bad day and nearly ruined the sale of violets; hurt them more than any other flowers. Cypripediums were in fair supply and demand; cattleyas, scarce and in good demand. Greens normal. Gardenias scarce; many orders remained unfilled.

Christmas Prices at Philadelphia

Roses: American Beauty, fancy and special, $75 to $125; extra, $50 to $75; Nos. 1 and 2, $25 to $40; Bride and Bridesmaid, extra, fancy and special, $15 to $25; 1 and 2, $3 to $10; Liberty, fancy and special, $60 to $75; extra, $20 to $40; 1 and 2, $8 to $15; Golden Gate, fancy and special, $20 to $25; extra, $10 to $15; 1 and 2, $4 to $8. Carnations: Lawson, $6 to $10; Enchantress, $10 to $12; other varieties, $4, $6, $8, $10, $12. Violets, $.75 to $2. Lilies, $20. Narcissi and hyacinths, $2 to $3. Lily of the valley, $3 to $6. Smilax, $15. Asparagus, $35 to $50.

Pittsburg Wholesale Cut Flower Market

Christmas Report

Everybody seems more than satisfied with the results of Christmas week's business. The sale of cut flowers was heavier than last year and all plantsmen and florists who handled plants report that plants sold very well and at better prices than previous years. The wholesalers feel elated over business in general. The weather Friday and Saturday was most disagreeable.

In cut flowers fancy stock was not plentiful, and as usual not near enough red of any sort of cut flowers to go around. The home product of roses and carnations was never better; stock came in fresh and of good color. The prevailing prices of Friday and Saturday on roses were: American Beauties, special and fancy, $75 to $100; extra, $60 to $70; firsts, $30 to $45; seconds, $15 to $20. Brides and Bridesmaids, special and fancy, $18 to $25; extras and firsts, $12 to $15; seconds, $6 to $8; culls, $3 to $4. Liberty, specials, $30 to $40; extras, $20 to $25; firsts and seconds, $10 to $15.

Carnations, Enchantress and fancy red, $10 to $12, Lawson, $6 to $10, lower grades, according to quality, $3 to $6; culls, no demand at any price. Violets, $2 to $3; single violets, $1 to $1.25. The only stock on which there was a glut was Roman hyacinths and the lower grades of the poorer varieties of white carnations.

The market on holly and trees was poor. On Friday and Saturday holly of fair quality was sold as low as $.65 per case, and trees 3 for $.25.

CHRISTMAS MARKET REPORTS

Christmas at Baltimore

Good roses of all kinds were scarce. There was an abundance of carnations of all colors except red; these were of insufficient supply. Notwithstanding the extremely bad weather, Baltimore florists assert that they experienced the best average business they ever had. Monday and Tuesday of this week sees a continued scarcity of all cut flower stock, due to the continued rainy weather. Christmas prices were as follows: —

Roses: Beauty, fancy and special, $75; extra, $50; Nos. 1 and 2, $15 to $25; supply short; Bride and Bridesmaid, $6 to $15; Golden Gate and Ivory, $6 to $15; Perle, $4 to $8. Carnations: Lawson, $5 to $8; Enchantress, $6 to $8; others, $3 to $6. Violets, single or double, $1 to $1.50. Lilies, $10 to $18. Narcissi, $2 to $3. Roman hyacinths, $2.50 to $3. Lily of the valley, $3 to $4. Smilax, $15 to $25. Asparagus, $25 to $50.

Buffalo Christmas Market Report

Christmas trade as a whole was satisfactory. Good pink, white and red roses, and same in carnations were short in supply. American Beauties and Violets moved slow. Bulbous stock cleaned up fairly well, and other miscellaneous flowers sold at fair prices.

There was an over-supply of holly, roping and loose
and also Christmas trees. Ground-pine — roping and loose — also laurel roping, sold fairly well.

The plant report from the retailers seems to be very encouraging. They claim that cut flowers are too high, that the public takes more to plants, and you can't blame them, when you see some of the pickled stock that comes in, in the line of carnations and other flowers.

Buffalo Wholesale Cut Flower Prices

Buffalo Christmas prices were as follows: Roses: Beauty, fancy and special, $75; to $100 extra, $50 to $60; Nos. 1 and 2, $25 to $30; plenty of them; Bridesmaid and Bride, fancy and special, $15 to $18; extra, $10 to $12; 1 and 2, $6 to $8; Liberty, fancy and special, $20 to $25; extra, $15 to $18; 1 and 2, $10 to $12; Golden Gate and other varieties, $6 to $15, according to grade. Carnations: Lawson, $4 to $8. Enchantress, $6 to $8; others, $3 to $5; Violets, $1 to $2. Lilies, $10 to $15. Narcissi and hyacinths, $2 to $4. Lily of the valley, $3 to $5. Smilax, $15.

Louisville's Christmas

The week past was one very satisfactory in every particular, Christmas trade being up to expectations. Carnations of extra quality were in evidence, but only in fair quantities. Roses of choice quality were easy to get, and sold satisfactorily. Violets were of good quality, but being in poor condition, of course did not sell very well. Hyacinths and narcissus sold very well in large quantities, the quality having been very good. Lily of the valley and mignonette were also heavily demanded. Some Lorraine begonias, cyclamens, azaleas, etc., were selling very well. Christmas greens were fairly demanded, and there was no trouble in getting satisfactory quantities.

The Society of Kentucky Florists will hold its regular meeting the night of January the third. It was suggested that a Bowling Club be formed, and this will be considered at this meeting. New officers will be installed, and a large attendance is hoped for. The meeting will probably be held at one of the stores.

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Here are THREE WORTHIES worthy of your consideration:

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The FINEST PINK

The Cardinal
The FINEST SCARLET

Fred Burki
The FINEST WHITE

Without exception, the best in their respective classes.

$12 per 100. $100 per 1000.
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Wheeler's Tom Thumb	.05
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Grand Rapids	.05
FORCING RADISHES	
Long White Icicle	.05
Scarlet Button	.05
Ex ey white tip set	.05
Earliest white Olive	.05
" carmine Olive	.05
FORCING ROOTS	100
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Royal Sovereign Melon	.50
Gunton Scarlet Melon	.50
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Ex. ey. Erfurt Cauliflower	.25
BOOKS	EACH
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Watson's Mushroom Culture	free

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Green and Bronze Galax, $1 per 1000
Best Stock of **FLORISTS' SUPPLIES** In the country
H.M.Robinson & Co.
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NOVELTIES OF REAL MERIT
Our CHRYSANTHEMUMS are favorably known the world over.
Our new GERANIUMS and BEGONIA REX are of the same high standard.
We also have two CANNAS which should be added to every collection. They are "THE EXPRESS" and "OSCODA," both unsurpassed as bedders.
Descriptive Catalogue ready in January.
Nathan Smith & Son. Adrian, Mich.
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Largest Wholesale Shippers of.....
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Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies
Renowned Cottage Garden Carnations

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Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

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Will find a reliable market with
W. H. CUNTHER
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Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

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WHOLESALE FLORIST
46 WEST 29th ST., - NEW YORK
Telephone 3393 Madison Sq.
Consignments Solicited

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Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand.

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Wholesale Commission Florist
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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Wholesale Commission Dealer in
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42 West 28th Street *WHOLESALE FLORISTS*
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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

NEW YORK'S CHRISTMAS FLOWER TRADE

The week previous to Christmas saw a very light traffic and, as the shipping trade is practically dead in this center, no incentive to any material advance in values was given until Saturday, when, towards evening, things began to wake up. At the finish the market was cleaned up in good shape and, although there was a certain amount of stock left unsold, yet there was no cause for fault-finding on the part of growers or wholesalers, and so far as the retailers were concerned, they took good care not to overload on anything that could be supplied at short notice from the wholesaler's lockers. One of the causes contributing to the generally satisfactory result was the fact that but little "pickling" was practiced, the shippers sending in their crop in fair quality right along as it became ready. This commendable purpose not to either overload or strip the market at any period. During the day of the 24th, no unusual demand was apparent, and a large quantity of stock was disposed of at moderate figures and a rather quiet air pervaded the entire wholesale district; but the fact of all this stock having been cleaned up helped to ensure a good market for the evening shipments. It was then seen that prime Bridesmaid and Liberty roses would be readily disposed of and these, as well as American Beauty, cleaned up splendidly. Beauty had been selling cheaper than was the case one year ago, but considering the prices that prevailed previous to Christmas, the final result ought to be very pleasing to the growers of this rose. Carnations were in very heavy crop all through the week and it was impossible for the wholesalers to reach the prices of 1903 on any line, but at the close only the white ones and a few odd varieties were left over to prove that everything will not go — even for a holiday.

Color was wanted. Bride roses consequently hung fire as did also Paper White narcissi and Roman hyacinths. Other than the demand for color it cannot be said that any unusual tendency manifested itself toward anything in particular. The great leader in the cut

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Fancy Carnations
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Beauty, Bride, Bridesmaid, Liberty, and all Standard Varieties
GALAX, Etc.

Wild Smilax
All orders completely filled
Prompt Shipments

FANCY CARNATIONS
All the Latest Introductions in Best Grades
SMILAX
Asparagus, and Other Greens

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Beauties and Liberties For New Year's
$12.50, $25.00 and $40.00 per 100
Order Early to Prevent Disappointment
SAMUEL S. PENNOCK
The Wholesale Florist of Philadelphia

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A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.
A Large Assortment of Ferns for Jardinieres
Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc.
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WANTED: Consignments of High Grade Carnations.

flower procession was, as usual, the American Beauty rose, Bridesmaid and Liberty following. And it is not too much to say that carnations and violets held their own. Lily of the valley did fairly well, but much of it was rather soft and had to be unloaded cheap.

Among the mentionable things seen on "the street" were some fine Lilium lancifolium rubrum at Raynor's, said to have been grown by Louis Schmutz, also H. A. Spavins' scarlet seedling carnation "Mrs Wood," carnation Estella at J. K. Allen's, which proved itself to be a model Christmas scarlet, Ulrich Brunner roses at Traendly & Schenck's, fancy carnations as big as dahlias at John Young's, and some remarkable phalænopses at W. S. Allen's. The prevalent prosperity extended as well over the 29th St. and 30th St. wholesale marts and in the other direction to the 26th Street markets, where in the early morning hours an old-fashioned rush was experienced. And so, for once, a merry Christmas came to all.

The Christmas Plant Trade in New York

Superlative language would be required to adequately describe the Christmas plant trade of the great metropolis for 1904. A peculiar and very satisfactory feature of the business was the way in which it was distributed over several days instead of coming in all at once as on some past occasions. The quality of plants was excellent on every side. So good were they that, by common accord, as it were, the store florists refrained from any effort to improve them by the addition of trimmings; using only the piece of ribbon so dear to the heart of femininity, to suggest the holiday idea. As to receptacles, the variety of styles and material was very limited, especially in the high-class stores. There were some natural twig baskets and boxes in which little orange trees, Primula obconica, and some other things looked most charming, "Russian" boxes made of rough, gray material in imitation of weather-stained wood, in which mixed plants appeared quite at home and, among the unusual things, there were blooming cattleyas in regulation orchid baskets. But the main receptacle used was a pot basket of either red or green straw braid. Of crepe paper, mats and similar pot-covering material very little was in evidence. Bells and other artificial things were also in noticeably small use in the fashionable sections of the city

The variety of plants offered was not different, materially, from that of one year ago, except that the proportion of Lorraine begonias was much larger. The other leading staples were poinsettias (in pans) of varying heights, azaleas (mostly pink or red) in various sizes, Erica melanthera, ardisias, oranges, primulas and orchids. The latter were represented by calanthes, cypripediums and cattleyas mainly. A good many plants dependent upon their foliage for their beauty were used, particularly in the mixed baskets as shown by those enterprising firms, McConnell, Dards and Stumpp, who set the fashions for the swell up-town folks. Among these were dracænas, pandanuses, small palms, ferns, etc. Touched up with a plant or two of cypripedium insigne or Spicerianum, a few holly twigs, and a dash of red ribbon, they were all right. Imported hollies were seen in great abundance.

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Very best galax leaves gathered fresh from the woods — can supply 1,000 or 1,000,000, green or bronze. It will pay you to write me. Good stock, low prices, quick shipments. Telegraph orders a specialty. Wholesale trade supplied, but if your wholesaler does not handle my stock, write direct to me and get fresh galax, large or small leaves, the genuine waxy gloss color that makes galax leaves beautiful and which cannot be obtained except on fresh leaves just picked from the native woods. I can compete with any one on earth. Cold storage orders booked now for future delivery. Let me have your orders for immediate use now and you will start the NEW YEAR RIGHT.

E. H. HITCHCOCK, Glenwood, Mich. Established 1896. References: Dunns or Bradstreets, or Union Bank, Jackson, Mich.

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WHOLESALE FLORISTS

CHICAGO CHRISTMAS MARKET REPORTS

Christmas Greens

Bouquet green in bulk was ample for the demand and prices ruled generally steady. Wreathing was all used. Mistletoe found a fairly ready sale, although the medium quality, of which there was a good deal, dragged and many barrels had to be sold below the cost of freight. The holly business proved to be a holly famine. Those who counted on seeing big consignments of this material about the markets, as had been the case in recent years, were left out in the cold. The shortage on holly was more keenly felt than any other feature of the holiday business. Prices jumped from $6 up to $9 a case on Saturday, but it could not be supplied at any price.

Holiday Plants

As expected, Chicago's holiday plant trade was extremely large. Many more and better grown plants were seen than ever before. Large azaleas, largely Vervæaneana and Simon Mardner, were offered in fair quantity, and the retailers report not one left over. Heather was also in good supply and found ready buyers. Other plants furnished in greater or less numbers were cyclamens, poinsettias, primulas, ardisias, crotons, dracænas and Gloire de Lorraine begonias, the latter in much better quality than last year. An increased demand for plant arrangements is reported by the retail stores, also a preference for the larger sizes of plants.

Cut Flowers

Receipts of cut flowers were generally light. The out-of-town demand was about the same as last year. Local demand was never better. The best grades in every line were called for. On American Beauty roses, the supply was considerably below the call. Fancy grades of the tea varieties received also a heavy call and some orders had to be refused. Liberty was the scarcest item in the cut flower list. Violets were never better in quality and the supply was heavy. On Saturday afternoon prices dropped to $1 per hundred for the best double, and on Monday they could not be moved. Carnations experienced a very heavy demand, and the retailers found no fault with the prices asked for the select grades. A remarkable feature of the late market was the rally on white carnations, whereby stocks were completely cleaned up. The demand for any kind of carnations was so great on Monday morning that it had the effect of developing the highest prices of the season. Orchids commanded an increased call. Lateness of delivery at McKellar's, the leading orchid house, caused a considerable shortage and many more could have been sold had they been received on time. Poinsettias found a ready sale. There was some superb stock received, bracts measuring from eighteen to twenty-four inches in diameter, on stems five to eight feet long. Tulips are appearing in this market and are quickly picked up. Muir had some fine Yellow Prince with perfect flowers and fair stems, grown at his 35th Street place. A large local tulip forcer reports that La Reine is forcing very slow this season, coming without flowers. There was the usual disposition to pickle stock but, despite the depleted market and brisk demand, buyers refused to take old stuff, and consequently it found its last resting place in the garbage barrel.

Chicago Wholesale Cut Flower Prices

For Christmas Week, Dec. 19 to 26.

Roses: American Beauty, fancy and special, $80 to $100, enough to fill all orders; extra, $75 to $90, scarce; Nos. 1 and 2, $40 to $65; Bride and Bridesmaid, best, $15 to $25; medium, $8 to $12; lower grades, $4 to $6, all cleaned up; Liberty, best, $20 to $25; medium, $15 to $18; lower grades, $8 to $12, no picked stock of this item; Meteor, Golden Gate and Chatenay, best, $15 to $18; medium, $8 to $12; lower grades, $4 to $6; Chatenay in great demand.

Carnations: Lawson, $4 to $10; Enchantress, $6 to $10; other varieties, $3 to $8. Lilies scarce at $16. Narcissi, $3 to $4. Roman hyacinths, $2 to $3. Lily of the valley, $3 to $5. La Reine tulips, No. 1, $6; No. 2, $3. Mignonette $4 to $12, splendid quality. Violets, single, $.50 to $2; double, $1 to $3. Adiantum, $.75 to $1.25. Asparagus plumosa, $35 to $50. Smilax, $12 to $16. Cattleyas, $50 to $100. Cypripediums, $15 to $20. Poinsettias, special, $50; extra, $30 to $40; short stem, $12 to $25.

Chicago News Items

Lacey Young of Freeport, Mich., is in Chicago for the winter.

F. W. Taylor, chief of Department of Agriculture at the World's Fair, was a visitor.

The wife of Arthur Janetschke, 447 67th Street, died of pneumonia, December 28, leaving three children.

The wife of J. H. Mulder, proprietor of the Crystal Palace Floral Co., 2211 Cottage Grove Avenue, died of pneumonia, December 28

If you offer the right goods in the right way in these columns, you will not lack for customers.

"A long pull, a strong pull and a pull all together" — for advertiser, buyer and us, means success for all.

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ALL POPULAR ROSES and CARNATIONS

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Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens

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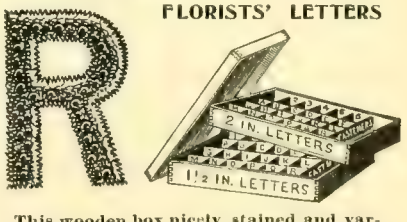
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In planning your advertising for the coming year, remember that HORTICULTURE proposes to work overtime the season through to prove itself the best medium in the country.

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The Two New Varieties :

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¶These two varieties will produce more first class salable flowers than any aster now in commerce. ¶They are branching varieties, producing flowers from three to five inches in diameter on fine, stiff stems from thirty to forty inches in length, with extra heavy foliage. ¶They are pronounced by both grower and consumer the finest asters ever seen in Chicago, and were the favorite asters in the Chicago and St. Louis markets the past season, and wherever shown they were termed the best ever.

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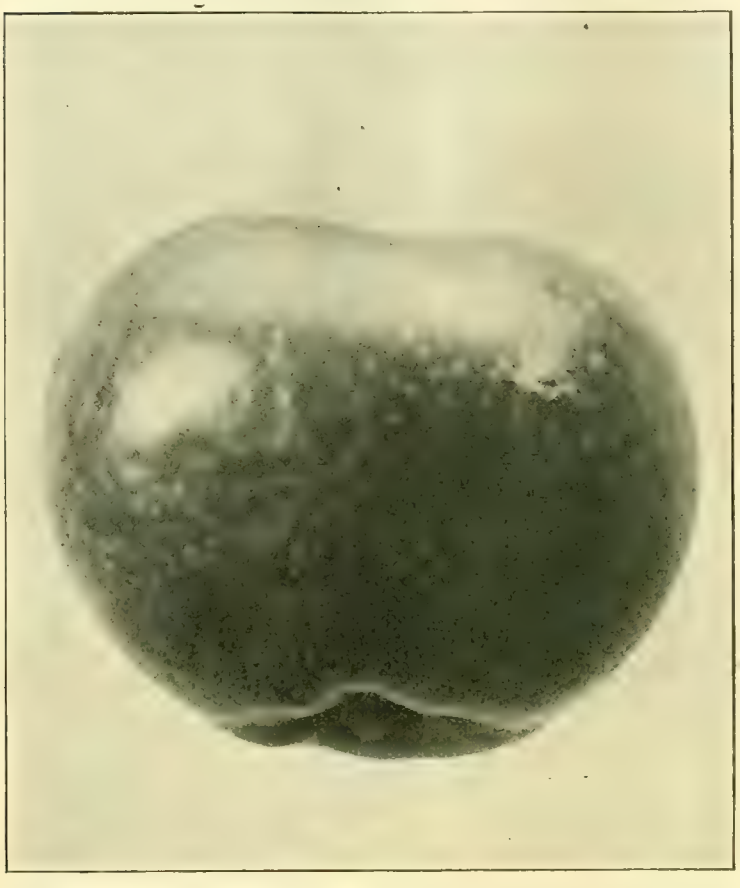
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The accompanying life-size photo is of one that I have named "Winter Gravenstein," as it very much resembles the "Fall Gravenstein" in color, size, and quality, but is a long-keeping apple. The tree is exceptionally hardy and vigorous. I have one tree budded from it that is five years old, from the bud, that stands fifteen feet high and is twelve feet broad; the trunk is five inches in diameter near the ground. This tree has borne fruit two years, commencing to bear at three years from the bud.

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R. B. White

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Pine Banks Park, a beautiful tract of pine woodland comprising about seven hundred acres, in Malden and Melrose, Mass., which was owned by the late E. S. Converse, has been presented by the Converse heirs to the two towns for perpetual park use, on condition that they assume jointly the expense of its care. It will make one of the finest parks in the state. During Mr. Converse's life he spent a fortune on it in road building and maintenance and it was always open to the public for any reasonable pleasure. It is understood that the gift now made is in accordance with his wishes.

The proposed metropolitan park system for Providence, Pawtucket and the Blackstone valley, in Rhode Island, is a very comprehensive scheme whereby much of the natural beauty still remaining in this densely populated district will be preserved, and accessible recreation spots be provided at various points connected by parkways in a manner similar to the metropolitan reservations about Boston and upon plans following in a general way that of the Boston Metropolitan System. The territory thus provided for covers an area of about eleven miles by seven, in which are the valleys of nine rivers, the shores of Narragansett Bay, and some twenty ponds and lakes, the population being at the present time 350,000 people.

Colorado Springs has taken a stand against the Christmas tree, which should interest the whole world. At the present time the United States government, through the forestry department, is replanting the entire southern slope at Pike's Peak with native trees. Statistics gathered by the chamber of commerce of Colorado Springs showed that over 100,000 evergreen trees were used yearly in the state of Colorado for the Yuletide celebration, and 5000 in the city. The age of the tree cut for use all over the world varies from 15 to 25 years.

The effect of the annual removal of 100,000 young trees, or the covering of 500 acres, is of vast importance to the water supply. It is more than probable that the removal of these 100,000 trees means an annual reduction of from seven to ten cubic feet of the conserved water supply, which, from a commercial standpoint, is worth much more than the selling value of the trees.

The campaign started, resulted in numerous families sending East for artificially manufactured trees. The small forests close to the city of Colorado Springs were afforded police protection before Christmas. — *Boston Herald.*

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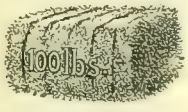
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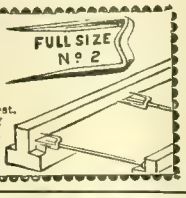
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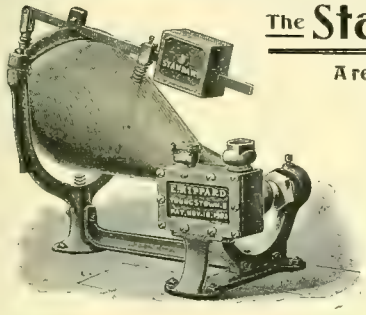


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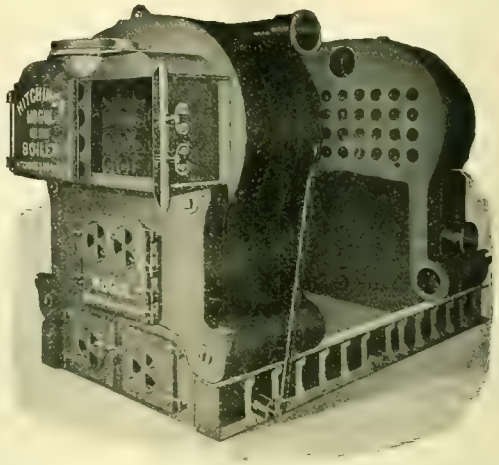
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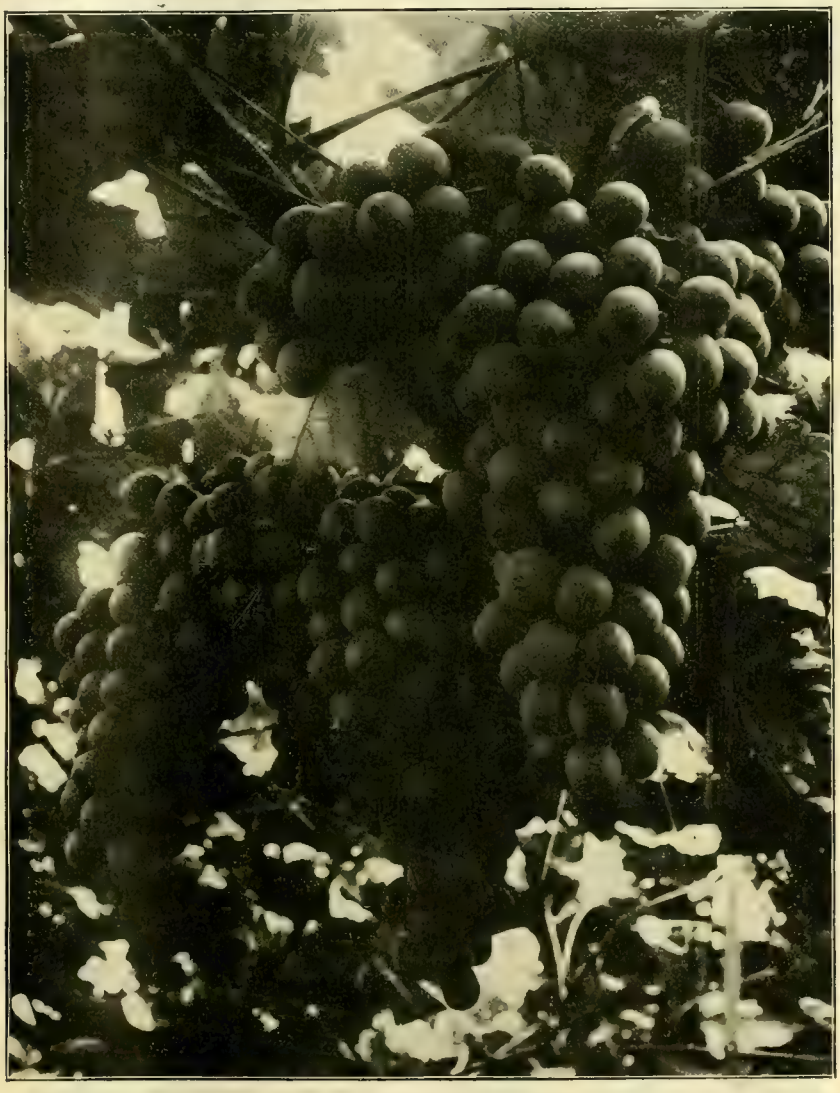
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Vol. I JANUARY 7, 1905 No. 6



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THE AUDITORIUM, CHICAGO

Where the Meeting and Exhibition of the American Carnation Society will be held

President James Hartshorne of the American Carnation Society desires to call attention to an error in the printed premium list sent out announcing dates January 27 and 28, which should be January 25 and 26. Phil. Hauswirth of Chicago will be superintendent of the show. The judges are as follows: W. N. Rudd, Mt. Greenwood, Ill.; William Nicholson, Framingham, Mass.; William Scott, Buffalo, N. Y. The banquet will be held on the evening of the last day in the banquet room of the Auditorium Hotel.

George M. Stumpp

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THE BEGINNINGS OF HORTICULTURE



Ancient picture of a garden. From a tomb at El Bersheh, of the early time of the Osirtasens of the twelfth dynasty, about 4,000 years ago.

In these modern days, all the nations, even the half-civilized ones, are devoting themselves to horticulture. Yet there must have been a time when this science was not known, when mankind was satisfied with such flowers or fruits as nature gave without cultivation, when even the simplest methods of growing were not understood. In searching among the records of antiquity the writer of this article has become convinced that to ancient Egypt the world owes a great debt for its establishment of scientific methods of flower and fruit growing, for its foundation of horticulture among the sciences of the world.

The antiquarian might suspect the fondness of the Egyptian, five thousand years ago, for flowers, since he could find them used as architectural devices on some of the oldest temple buildings. On some of these the capitals of the columns are bell-shaped representations of the head of the full-blown papyrus, while others are ornamented with figures that picture the buds of certain water-plants.

This index of the Egyptian's inclination towards flowers is a true one. Just as at present no banquet is considered complete without its floral decorations, so in ancient Egypt the dinners were enhanced with many flowers. And they gave very respectable dinners, those dwellers on the banks of the Nile, five thousand years ago! Music, dancing, rich perfumes, wines, jugglers and entertainers, and flowers, were there. When the guest arrived (the dinner was generally given at midday) he received lotos-flowers and garlands for his head and neck, his head was bathed in perfumed ointments, and he was given wine in a silver cup. When the guests were assembled the host and hostess took their places at the head of the room, seated in a large double-chair. The Egyptians did not recline at their banquets, as the ancient Romans and Grecians did, nor did they sit on the ground as many Orientals do to-day, but they sat in chairs exactly as Europeans do at present. If any of the guests had walked to the house, their feet were bathed in perfumed water and rubbed with ointments, which were brought in silver or even golden basins. All the guests washed their hands before sitting down to the banquet.

And now the garden furnished its store of treasures Maid-servants came to each guest, just before the meal, bringing fresh-cut flowers; and this proceeding was repeated at the end of the dinner. The garden was also drawn upon for a variety of vegetables, for the ancient Egyptians had many dishes of vegetables, both with and without meat, at their banquets. Even the poor enjoyed many varieties of vegetables cooked in various ways.

And now let us study something of the methods of horticulture and agriculture, fifty centuries ago. The plough was not unlike the implements used to-day, and it was sometimes drawn by slaves, although more frequently by oxen. The furrow was probably a shallow one, as the soil was very rich and received a top-dressing every year in the fertilizing mud left by the annual inundation of the Nile. Yet the old Egyptians occasionally used nitre or the excrement of the pigeon-house when they grew watermelons. Sometimes the plough was dispensed with altogether and the wet mud scratched with bushes, which were drawn over it before throwing in the seed.

Their grain was threshed by oxen, driven over the corn, which was spread out on a hard floor; and as the

beasts trod it out, the laborers all sang a working-song (the Egyptian was always singing) which ran, —

"Thresh for yourselves, oh oxen!
Measures for your masters,
Measures for yourselves!"

Many of the priests, who were generally rich, had costly villas, and they entered into mundane pleasures with considerable zest; in fact, they formed the upper circles of Egyptian "society." They often had large and beautiful gardens, laid out with considerable taste and at great expense. There were large avenues of trees and reservoirs of water at convenient intervals. Although channels conducted the water to many parts of the estate, the flower-garden was watered by slaves who carried primitive watering-pots or jars, as is seen in the picture given herewith.

The picture is taken from a very ancient tomb at El Bersheh, and is probably over 4,000 years old. From it we learn the manner of strewing the seed and the trimming of plants. We see also that there were flower-pots almost exactly like our own, forty centuries ago. In the upper right hand corner we find a variety of vegetables or fruits, one specimen of which looks very like a pineapple.

The flower-beds were generally laid out in squares and the greatest care was lavished upon their cultivation. The Egyptians had a great reputation for skill in floriculture before the Christian era. Even after this time they maintained their supremacy in this field, for Athenæus, who probably wrote in the second century, A.D., says, —

"While other countries only produced them in small quantities at any season, Egypt had at all times of the year the greatest abundance of roses and violets, and many flowers were obtainable there even in the midst of winter."

The vineyards were trellised very much as they are in Italy to-day. There were olive, pomegranate, fig, date, and other fruit trees in the orchard.

There was one very odd custom in gathering the figs from high trees; boys were sent to the topmost branches, and these were often assisted by *monkeys*. The ancient Egyptians were noted for their skill in training animals, but perhaps the most startling instance of this is found in their training monkeys to do a practical manual labor such as gathering figs. The fruit, when gathered, was placed in baskets of exactly the same flat shape that is used for the better varieties of figs to-day.

Every morning the owner of the estate would walk in the garden, with his guests, and the flower-beds were always placed near the house, that they might be easily accessible to such visitors. The master generally had a dog with him in his promenades, if the ancient pictures tell a faithful story, — and their veracity has never been impugned.

All in all, the ancient Egyptian seems to have been the chief florist of the ancient world, and it is not improbable that he was the very first scientific gardener that the world possessed, although ancient China also had some skill in this domain. Yet the Chinese never seem to have attained the variety of growths achieved by the Egyptians, and certainly never made such copious use of flowers as was constantly done by the wealthy, on the banks of the Nile, ages ago. From all of which we believe that the reader will conclude, as the author has done, that horticulture began in ancient Egypt.

Louis C Elson

In planning your advertising for the coming year, remember that HORTICULTURE proposes to work overtime the season through to prove itself the best medium in the country.

FERNS



PTERIS SERRULATA CHILDSII

PTERIS SERRULATA WINSETTII

PETRIS SERRULATA CRISTATA

FORMS OF PTERIS TREMULA

The genus Pteris contains many good and hardy decorative plants. It is the only one where true silvery white variegation can be found; all these variegated and glossy-leaved species show much better their color when grown in the shade. In other respects the most are of easy culture and require no special treatment.

In general, the fruiting fronds do not differ much from the others. They are sometimes longer, more erect and the leafy part more narrow on account of the edge being curled up as the indusium so covers the spore cases which are disposed in a long line at the edge of the pinnæ or pinnules.

All the Pteris are easily grown from spores. Pteris serrulata and its many forms are the best known and the most used. It is a native of China, but naturalized in many places. P. s. angustifolia, P. s. corumbifera, P. s. cristata, P. s. compacta, P. s. gloriosa, P. s. polydactyla, etc., are all forked and tasselled forms. If the spores of a few of these ferns are seeded together, there is much chance to have lots of different forms in one seed pan.



PTERIS STRAMINEA (CRISPA)

P. s. gracilis and P. s. tenuifolia have the leaflets narrower than the type and are of very elegant habit. P. s. Winsettii is a very interesting form with the fronds irregularly cut and dentated and crested. P. s. Childsii is the best of all, I think. It is one of Veitch's introductions and has its fronds larger than any others They are deeply dentated and undulated, with the top slightly crested and make beautiful big plants. I have never seen any fertile fronds and it has to be propagated by division. Pteris cretica and its forms are much used, also, and liked for their abundant shining green foliage. It is a native of the Mediterranean coasts, of South Africa and Central Asia, and is found in different other places.

P. c. Ouvardii or major is a very distinct form, of great decorative value. The fronds are erect and much bigger, undulated and on long stems.

P. c. albo-lineata, from Japan, which is so attractive with the silvery white center of its leaflets, has many digitated and crested forms which when seeded together give a lot of abnormal forms.

Pteris quadriaurita, found all over the tropics, is the green form of the more popular P. q. argyrea which was introduced from India. Its decorative qualities need not to be praised as they are well enough known.

Pteris longifolia, another popular fern that grows wild all over the semi-tropical world, is very decorative with its long simply-pinnate fronds. P. l. nobilis is a gigantic form that comes from the South Sea Islands. The fronds are of the same form, but much longer and broader. P. l. Mariesii, from Asia, is a very nice bushy plant, smaller, and the pinnæ narrow, a little undulated, of a light green color and of drooping habit, but not so hardy.

Pteris ensiformis or crenata, from Asia, is of erect habit, very hardy, but not as decorative as its variegated form, P. e. Victoria, which is very attractive. Its barren fronds are short and prostrate and larger than the fertile ones which are erect and much longer than in this type. They are nicely variegated with creamy white in the center of the fronds.

Pteris tremula, from New Zealand, is another popular and much-used fern. There are a few forms from it in cultivation; P. t. flacida with narrower leaflets, P. t. foliosa with larger leaflets. There are some with branching and tasseled fronds, the most popular of these being P. t. Smithii with compact and crispy fronds; when propagated from spores, gives often different forms. I have raised a dwarf one that looks like a bunch of parsley.



PTERIS PODOPHYLLA

P. t. densa is a new form of erect habit. The fronds are very crispy and heavily crested. A very distinct and attractive plant.

Pteris straminea or crispa, from Chili, is a good hardy, decorative fern of an erect habit. The stem is of yellowish color and long; the leafy part grows upwards, twice divided and dentated, and has a crispy appearance.

Pteris aspericaulis, from India, resembles much P. quadriaurita in the form of the fronds but they are shorter and of more compact habit. The young fronds are of claret-red color and turn bronze before they take on their bright green color. Pteris tricolor (P. aspericaulis tricolor) is regarded as a form from it. It was imported from Malaysia and is without question the jewel of the Pteris family. It likes to be grown in a stove house to show its bright colors. The young fronds are of a bright rose or purplish-red color; when old, the outside fronds are dark green with the center silver gray and the ribs purple. It is really a beautiful plant, but it fades in apartments.

Pteris scaberula from New Zealand, is a very nice hardy little fern, about twelve inches high. The fronds are finely cut and grow from a creeping thin rootstock. It looks like a davalia. It grows well in hanging baskets as in pots, preferring a cool and somewhat dry situation.

Pteris arguta and Pteris flabellata look much alike. The first is from West African Islands, the other from South Africa. The fronds are about two feet long of soft thin texture and a light green color.

Pteris Moluccana, from Malaysia, is a very tall-growing and ornamental fern. The fronds are cut in long, narrow strips of bright green leathery substance.

Pteris umbrosa, from Australia, has fronds two to three feet long, of a drooping habit, of dark green and strong texture.

Pteris laciniata, from West Indies, is quite distinct in appearance with its fleshy and very heavy stems. The leafy part is thin and covered on both sides with hair and is of a very light-green color.

Pteris Wallichiana from Japan and Himalaya is a robust growing species, the leafy part on top of a long stem divided in three big pinnæ, the two lower of which are divided once more, giving the frond a star-shaped appearance. Pteris podophylla, from West Indies, is cut the same way as T. Wallichiana, but the texture is stronger and the rootstock is erect, while in the other it is creeping. Both are large growers, the fronds two to three feet long and very ornamental.

Pteris hastata and Pteris adiantifolia, which are correctly Pellæs, are natives of South Africa. They are well known and used too. Their fronds, with large adiantum-like pinnæ are of good effect for decorations.

There certainly are many more Pteris. The list would be too long to enumerate here. The section Doryopteris ludens, nobilis, sagittifolia, palmata, etc., are very interesting and decorative for stove houses, but of little durability for decorative purposes.

Amedee Hans

Hybridizing the Native Grapes



"The grape, the longest known, the earliest cultivated of all fruits, when and where did it originate? 'Neath what suns did the first grape-tendril twine into rich luxuriance? What hands gathered its first luscious berries? Who can tell?

"Long before research folded back the curtains of time, long before the breath of history crystallized incident and event, the 'amethyst clusters' of the grape ripened under sunny skies. Veiled in myth, clothed in the shades of the past, gleaming from legend and fable, it comes to us breathing suggestions of sylvan deities, Greek festivals, and Egyptian rites. Biblical figures rise before us as we ponder on its origin, and kings, whose very names are now forgotten, crowd by on time's remotest blue."

The earliest account of grapes being found in this country is from the Ancient Northmen, who came to this country about the year 1000 and found so many grapes that they filled their long boats with them and named the place Vineland, which place is supposed to be Massachusetts and Rhode Island. The next is from the early settlers. The Pilgrim Fathers saw vines in abundance at Plymouth. "Here are grapes, white and red, and very sweet and strong also," wrote James Eward Winslow in 1621. Rev. Fr. Higginson, writing in 1629 from the Massachusetts Colony says, "Excellent vines are here, up and down in the woods!" But as the country became settled more, many of the settlers who had been accustomed to eating the foreign grapes (Vitis vinifera) were not satisfied with the native species, and attempted to substitute the vinifera species.

In 1630, a London company sent French vignerons into the Virginian Colony to plant grape vines which they had imported for the purpose; the poor vignerons were unjustly blamed for their failure.

In 1633, William Penn vainly tried to introduce and cultivate European varieties in Pennsylvania. In 1790, a Swiss Colony, grape growers from Lake Geneva, tried to raise grapes and to make wine in Jessamine County, Ky., but their hopes were soon blasted; their labor and fund $10,000 were lost; and only when they commenced to cultivate an indigenous grape, they had somewhat better success. About twenty years later (1820) the "Catawba" and "Isabella" were introduced, and supposed to be pure native grapes of Labrusca species. These two varieties may be considered the principal pioneers of American grape culture; but although excellent in quality and successfully grown at that time in many localities, they did not satisfy those who were acquainted with the superior quality of the European grape and did not fully meet the demands of refined taste. Hence the introduction and planting of foreign grapes was still looked for; the attempt with German, French, and Spanish vines made again and again, proved failures. Hundreds of thousands of the best European vines were imported, but they all perished. Thousands of failures are recorded and not one of success, and grape-growing on a large scale east of the Rocky Mountains was abandoned until the advent of the Concord grape about 1850. A grape of fine appearance and of fairly good quality, hardy and prolific, and to-day is planted over a greater extent of territory than any other grape in the world. More widely disseminated than any one variety ever should be, there is no one variety that will succeed everywhere, and the Concord when planted in the South and Southwest fails to give satisfaction.

The Concord is a pure Vitis Labrusca, a northern species that is limited to a comparative small extent of territory. This limitation to the successful culture of different species had not been recognized by grape growers until the dissemination of the Concord. A fact that should have been learned from France, where there are some fifteen hundred varieties grown and only about a dozen grown in the same locality. The knowledge of this fact has led experimenters to improve the native grapes in different parts of the country by crossing and hybridizing, which method has been attended with marked improvement. A combination of our native grapes with a slight infusion of vinifera (European) blood is giving us grapes that are better for the table than any of the best California productions, and as large and beautiful in cluster as the accompanying photograph is evidence.

R. B. White

A good advertising medium is an indispensable commodity. We hope to attain that distinction.

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GRAPES UNDER GLASS

Grape-growing indoors will not be practised to such an extent perhaps in this country as in the old country, on account of so much fruit being available from outdoor cultivation, and improved facilities for keeping the same. Yet there is quite a demand for the better kinds of grapes, shown by the willingness of a certain part of the public to pay from $1.50 to $2 per pound for them.

The fact that graperies are the exception rather than the rule, gives the impression to some that there are great difficulties in grape-growing under glass, and as a fact, generally speaking, only gardeners who have had an old-country training know much about this branch of the work, yet there are few things which better repay the care and attention bestowed on them.

On getting a grapery the first thought is, I must import canes. Yet if one can get vine eyes of the varieties he wants, nothing is easier to grow, and a cutting inserted in bottom heat in January will be ready to plant in the border by May, and will grow fully better than a cut-back imported cane which ofttimes gets started into growth on the way over.

I select good, firm wood and cut about ¾ inch above eyes and 1 inch below, inserted in thumb pots with a soil nearly all sand, plunged in a good brisk bottom heat, but the tops should be as cool as possible with the idea of keeping them from starting into growth before rooting. When rooted they grow rapidly, and good fibrous loam with plenty of bone meal they revel in.

Vine borders are best with concrete bottoms and good drainage and the border should be all inside, as they can be better controlled as to moisture at all times. Outside borders in this extreme cold climate are expensive, a great care, and not necessary. Much has been written on formation of borders that it is unnecessary to say more than that it cannot be made too good, but only part at a time, thereby ensuring fresh feed for the growing vine. A word here as to depth of border: generally they are made 3 feet deep, yet with a good width 2½ feet would be ample, and with a very retentive soil perhaps less. The idea that with good drainage you cannot over-water a vine border is very erroneous; in fact, the principle is the same as with a pot; first ascertain if it needs it, then give sufficient. I always try with a fork to see the condition of the border before watering. A good watering before starting should carry them until growth has well started.

As to manures for grapes there are many, but if I was tied to one it would be Thompson's vine manure. I like some variety and I think dried blood, bone, and cow manure, with perhaps a little nitrate of soda, just when finishing swelling to give extra size, will cover the ground pretty well. I have heard, too, of very good results from Brazillian plant food but have not used it.

Blood and bone is very safe to use and gives fine color to foliage and fruit, and with a fine grade of bone is very available.

A liberal manuring with the annual top dressing and some at every watering up to coloring, after they have set, is none too much, as the vine is a gross feeder. As soon as they start coloring it should be stopped.

As to varieties, the most popular is, without doubt, Muscat of Alexandria; next is Black Hamburg, and the later varieties, though better keepers, are not so good flavored, though Gros Colman is a great favorite with gentlemen.

The frontispiece illustration is a bunch of Black Alicante which weighed nearly six pounds and some of the shoulders were taken off at thinning time to make the bunch more symmetrical. This grape is a good keeper, a fine showy bunch, but not so well liked as Lady Downes or Gros Colman, the latter a fine grape when well finished, but requires a long season.

The pests of the grape are mealy bug and red spider. The first with the hydrocyanide fumigation should be easily subdued, and the latter with a good force of water should be easy to handle.

Perhaps a word as to setting the fruit. I find that with a free circulation of air and not too high temperature, I never had any trouble with setting the fruit, even Muscats. I sooner lower the temperature during setting than raise it, and all I ever did besides tapping the vines daily, was during a fine, bright day, to just draw my hand over the bunches, and give a fine, sharp dash with the syringe.

W. DOWNS.

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11 HAMILTON PLACE,
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TELEPHONE, OXFORD 292.

Cypripedium Insigne



Our method of culture of this old time favorite is as follows: Our plants are grown on the north side of the cool house the year round, underground glass, and are only shaded about three hours each day by a large tree growing near the houses. The temperature in winter is about 45 degrees at night. For potting we take rough peat and a little loam and charcoal, using pans for the larger plants and pots up to six inches. During the growing season abundance of water is given with the hose every day, but after the flower spikes are well advanced the quantity is much reduced, and after the flowers are open the plants are kept quite dry till about the end of January. We then repot the plants that require it and give more water as the days get warmer.

For feeding we use Clay's Fertilizer about once a week, diluting one 3-inch pot of the fertilizer with two gallons of water. We have had plants in 5-inch pots with seven flowers, and 6-inch pots with ten flowers, but the best specimen we have ever grown was exhibited at the December meeting of the Pennsylvania Horticultural Society. It was grown in a 12-inch pan and bore thirty-one flowers.

The main points in the culture of cypripediums is good drainage, keeping dry during the winter months, and the free use of the hose and a liberal amount of feeding during the growing season. JNO. THATCHER.

Luculia Gratissima

This beautiful flowering plant is one of the most useful subjects we have at the Christmas holidays. Their color and fragrance make them in much demand for house decoration. Under artificial light they show at their best. Their culture is as follows: When the plants are through flowering they are pruned hard back and the prunings used for cuttings, after which the plants are then stood in a cool, light place and syringed daily until about the first of June, when they are planted out-of-doors. Land well-manured for vegetables is a good place to plant them in. The cuttings will have been rooted and in small pots ready to plant out with the old plants. If they grow well, they need pinching about twice.

The plants should be lifted about the last of August or the first of September and potted in rather small pots. Soil mixed for carnations with a little sand added suits them well. After potting they should be kept in a moist close frame or house and given water freely. With a light shading for a few days they soon take root in the new soil, after which they are hardened off gradually to about 50 degrees at night. When the flower buds are set, the temperature is raised 5 or 10 degrees at night. The pots are well filled with roots by this time and then they should get weak liquid manner at each watering until the flowers expand. The plants should be put in a cool greenhouse a few days before using for dwelling-house decoration, using water freely. When in the dwelling-house they require frequent and copious waterings.

The general effect of the plant in bloom is that of a rich pink hydrangea, but the individual flowers are longer tubed, much more graceful, and the fragrance is rivalled by but few flowers.

Geo McWilliam

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Simultaneously with the good news that violets made a grand Christmas record, comes the story that a number of the Rhinebeck growers are preparing to build additional violet houses in the spring. Rhinebeck evidently sleeps with one eye open.

Belated holiday reports from various points confirm the conclusions drawn from those earlier received, that, while under a suddenly augmented demand, certain varieties may run a little short, yet no pronounced scarcity in cut flowers is possible under present conditions of production.

Read our advertising columns. The list of sterling novelties offered in this issue should interest deeply any florist or gardener who expects to shine in his profession. It is many years since two such worthy forcing roses as Richmond and Wellesley have been placed before the growers. The latter is advertised herein for the first time but, like the first-named, it has passed the scrutiny of good judges and is booked as a winner in the commercial class. In ordering, you can help HORTICULTURE by saying that you saw the advertisement in its columns.

It is evident from the recent decision of the Agricultural Department at Washington, that the recently organized Massachusetts Association for the Suppression of the Gypsy and Browntail Moths will have to assume practically the whole burden of fighting these pests for the coming season, at least. With a general and hearty coöperation on the part of the people they should accomplish much, but, unless we are much mistaken as to the gravity of the situation, the national government will be compelled to tackle the problem eventually, and the longer it is deferred the bigger the job will be.

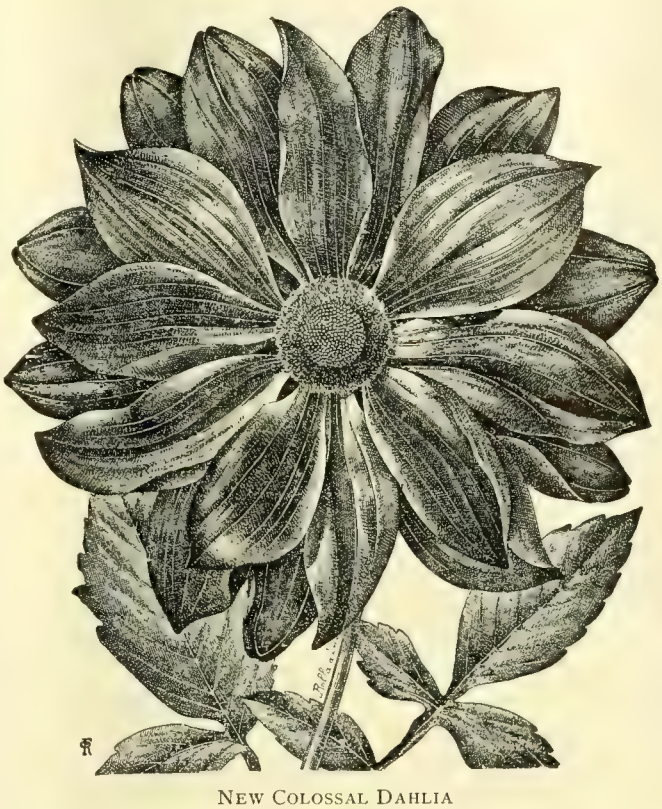
That the poinsettia is destined to lose its popularity as a Christmas specialty, as suggested in the holiday reports from some sections, seems very unlikely. Local conditions, such as the quantity grown or the quality or price of the goods, may bring temporary fluctuations, but a subject so bright and appropriate for the holiday season is not likely to go into permanent retirement. Pressed for an explanation of the poinsettia's decadence, they tell us that it "does not keep," or "the foliage drops." Undoubtedly the true reason, and directly traceable to unwise treatment by the grower or its subsequent owner in every instance, for if properly grown and intelligently cared for after delivery, neither of the above-mentioned troubles may be looked for. Doubtless, in the case of growing plants in pans, which have become so popular within a few years, the relapse is often due to disturbance of the roots at too late a date. Transplanting should always be done a sufficient length of time ahead to give the roots opportunity to get well-established.

On another page of this issue we present a view of the Auditorium in Chicago, where the American Carnation Society will hold its meetings and exhibition on January 25th and 26th. The effect of the change of date from March to January on the attendance and the exhibits will be watched with interest. The higher value of cut blooms in the market at the earlier date will make the cost to the exhibitor greater, but the benefit to the dealer in rooted cuttings will be considerable. As to the weather and risks of delay in transportation from distant points these cannot possibly be much worse than they have been in the past. The Carnation Society has been singularly unfortunate in that respect. All will wish it better success this time, and no grower who aims to advance should stay away from this meeting.

If the old saying is true that "God helps those who help themselves," then there would seem to be a fair prospect for Divine assistance in the work of saving the trees of New England from destruction by the moth pests, for there is a very evident determination on the part of the cities and towns in the infested districts to "help themselves." Undismayed by the refusal of the agricultural department at Washington to help fight the foes of the trees, nature's most beautiful adornment, the various communities of Eastern Massachusetts have taken up the work energetically, and liberal appropriations are made with that resolute unanimity so characteristic of the native of that section when he gets aroused. The devastation that can be wrought by the brown-tail and gypsy moth pests needs to be seen to be realized. Words are inadequate to tell the full story.

SOME NOVELTIES OF 1905

So many new sweet peas have appeared of late years that we have become shy of them. Eckford's yearly half-dozen has attracted attention and has usually contained one or two improvements. Of these, King Edward VII, bright crimson, and Dorothy Eckford, pure white, are recent acquisitions, thriving well in this country, while coccinea, the nearest approach to scarlet in sweet peas, and of most charming color, is ruined by sun-burning. Gladys Unwin, a strong growing sort of English origin, with pale rosy pink blossoms, usually four on a stem, is likely to meet with favor. It is of the lovely shade of pink so much in demand, and its vigorous constitution is likely to stand by it here.



NEW COLOSSAL DAHLIA

Begonia Bedding King is a new variety of the gracilis type from France, growing ten to twelve inches high, very similar in habit to Begonia Erfordii, with small round greenish-brown leaves, and densely covered with delicate pure white flowers. In France it is considered the best white sort for bedding.

There is also a new red-flowered form of Begonia Erfordii.

It is rather surprising to find the functionaries of a botanical garden engaged in producing variations of popular florists' flowers; nevertheless, to those of the municipal botanic garden of Lyons, the beautiful Parc de la Tete-d'Or, must be given the credit of the two latest forms of dahlia. Four or five years ago, the Collarette class, of which President Viger was the forerunner, appeared; now comes a race called "Colossal" because of the enormous size of the single and semi-double flowers, some of which have reached the size of 8¾ inches in diameter. The petals are remarkably wide, giving the flower the appearance of single or semi-double Chinese pæonies. When we recall the many new varieties of roses, carnations, cannas, and other florists' plants for which we are indebted to the enthusiastic and skillful horticulturists of Lyons, it is not to be wondered that even the botanical gardener catches the spirit of experiment so dominant in his locality and keeps a wonderful collection of what are termed florists' plants for purposes of hybridization.

Among the less important introductions may be mentioned Campanula persicifolia Pfitzeri, a double or semi-double form after the style of C. Moerheimi, in blue; Calliopsis grandiflora, Golden Fleece, in the flowers of which five or six strap-like petals appear in the center, giving a fleecy appearance; Centaurea Imperialis gigantea, a giant Sweet Sultan from Italy, with large white flowers on stems two and one-half feet in length; Dianthus laciniatus mirabilis, a German variation of single fringed Japan Pink; Helianthus cucumerifolius albus, said to be pure white; Salpiglossis Emperor, yellow, forming a large bushy top on a single stem, and Schizanthus hybridus grandiflorus, a dwarf-growing form of this now popular annual, with large orchid-like flowers almost two inches in diameter, and likely to prove useful for pot culture during winter.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Treat Your Trees Now

Now that the trees are bare there is an excellent opportunity to treat them (especially fruit trees and shrubbery) for that most pernicious of pests, the San José scale. There are thousands of people who are careless of their trees and fail to examine them — the result being an almost certain death to their property unless treated in time. H. A. Surface, the Economic Zoölogist for the State of Pennsylvania, strongly recommends the lime-sulphur-salt wash in a recent bulletin, and gives the following as a reliable formula for this remedy:

Salt, 15 lbs.
Sulphur Flowers, 20 lbs.
Lime unslaked, 30 lbs.
Water, 30 gallons.

These ingredients are boiled together in enough water to keep them boiling for at least three-quarters of an hour, and then enough water added to make the mixture equal to sixty gallons. Mr. Pease, the California scale inspector, says it must be cooked at least three hours and that the more cooking the better.

Another remedy is the lime-sulphur-soda wash, which is a little more expensive, but less troublesome to prepare, as it requires no boiling. Caustic soda of at least 86 per cent strength is necessary. Jacob Rife, West Fair View, Pa., has had excellent results with the following formula:

Caustic Soda, 4 1-4 lbs.
Sulphur Flowers, 17 lbs.
Lime unslaked, 33 lbs.
Water, 50 gallons.

Some authorities are of the opinion that good whale-oil-soap properly applied is still a good remedy, although it has been to some extent lost sight of during the exciting hunt for new cures. If we remember correctly, Dr. Van Fleet is an advocate of this soap and he is a close and reliable observer. One thing is sure in the latter connection: the caustic element in whale-oil-soap will dissolve the scale under which the insect lives, and a subsequent application of some active insecticide would then become effective. It is the hard outer shell that makes all kinds of scale insects so difficult to reach.

Some facts already demonstrated concerning HORTICULTURE: —

CIRCULATION — big.
CONTRIBUTORS — expert.
READERS — intelligent.
STAFF — hustlers.
ADVERTISERS — trustworthy.
PROSPECTS — bright.
FRIENDS — everywhere.

Municipal Improvement

In looking through the "Proceedings of the Twentieth Annual Convention of the Society of American Florists and Ornamental Horticulturists," I find several things of considerable interest, among which I may specially remark the paper by Mr. J. A. Pettigrew of the Boston park system, on "Home and Municipal Improvements." Mr. Pettigrew there touches one of the problems which is profoundly agitating the larger municipalities of this country. It is one, too, in which Washington, though perhaps considerably behind some of her neighbors, has at least taken a very decided and very gratifying action.

The thought of "beautiful Washington" has taken deep root in the minds and hearts of many who are officially concerned with the growth and welfare of the city. Your readers are doubtless familiar with the plans which have been made to encircle the present city with an immense park system. Some of these plans may possibly never materialize, and in any event their consummation will be a matter of many years; but it shows the trend of public opinion here as elsewhere on the immense public benefits that accrue from a well-developed park system.

The question of playgrounds for children has been taken up for the past two or three years in a decidedly earnest and effective way by a public playgrounds committee composed of private citizens organizing of their own volition. A number of playgrounds have been successfully established, and the matter is being brought to the attention of our District commissioners and to members of Congress who compose the committees on the District of Columbia.

School gardens have also been established, both in a private and in a semi-public way, and the gardening features of children's education have been brought forward through other mediums than schools. Vegetables, flowers, and ornamentals, as vines, etc., have been successfully and happily grown by a large number of children. I have had a very strong personal interest and connection with this movement, and feel that we have seen the successful beginning of what will eventually become a great movement in this city.

In view of these facts it is especially gratifying to note that the Society of American Florists and Ornamental Horticulturists will meet this year in Washington. We feel that the presence of this very influential organization will give an added impetus to the good work which is being done here, and for that reason as well as for many others we shall be glad to give them a hearty welcome.

Carleton R. Ball

Asst. Agrostologist.

Poppy or French Anemones



ANEMONE CORONARIA — THE BRIDE

A few years ago an enterprising Boylston Street (Boston) florist created quite a demand for these charming spring flowers. His method of cultivation was to insert the hard, corkey tubers imported from Europe for the purpose, between the plants in his violet houses during November and December, and by the time the violets became exhausted the anemones were in full bloom. The second crop came along without detriment or interference to the violets and afforded the florist a unique line which charmed his customers and gave him good return in cash.

It does not seem to be generally understood how easily the anemones can be bloomed out of doors in the early summer. For this purpose they should be planted in a well-manured bed, early in April. The best situation is one exposed to the morning sun only — they should not have the sun after ten o'clock. They should be watered freely until they have stopped blooming, when no more water need be given. By the end of August or September the tubers will have made their growth and may be dug up, dried, and stored away for replanting the following spring. They do not survive the winter if left in the ground in our climate. For florists' use or forcing, it is better to get the tubers in separate colors, white, blue and scarlet; the single are less expensive than the double sorts and are really to be preferred. A very interesting race of Poppy Anemone is the St. Brigid strain with large semi-double flowers. It originated in Ireland and is largely grown to cut for the London market. A singular characteristic of the Poppy Anemone is that the tubers when properly ripened and dried retain their vitality for several years.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

HORTICULTURE has certainly improved with each issue and everyone bespeaks praise for it. — W. W. L.

I have received HORTICULTURE, and find it a most creditable publication, which should and doubtless will receive the hearty support of the seed trade. I think it will compare most favorably with any of the older publications devoted to similar industries. — W. C. L.

DUBLIN, IRELAND. — I have very great pleasure in sending you inclosure for one year's subscription to your beautiful paper. It is everything that a high class trade journal should be and deserves success. It is full of the go and life of things American, and I hope to be a life-long subscriber. — W. C.

After Adjournment

What is the difference between a beautiful city and the "city beautiful?" Our civic improvement friends seem to have a special proprietorship in the latter. The former is good enough for us.

Worcester, Mass., florists are still flirting with the reporters, judging from the statement in the *Worcester Telegram* that "The poinsettia, a plant not known in Worcester a week ago, has had a big call, 5000 plants having been sold within the past five days."

On the day following our publication of the picture and advertisement of Mr. Arnold's "Variegated Lawson," F. R. Pierson Co. purchased the entire stock. We modestly refrain from making any claims, but — advertise that new carnation of yours also in HORTICULTURE and see what will happen.

We learn from our Denver, Colo., correspondent that "as all work and no play makes Jack a dull boy," the boys will likely turn their attention to bowling now in their *spare* moments, as a four-team league is in progress and some nice prizes are offered. Mr. Mahan with his old war-horses may not, however, have everything their own way.

Two calendars have reached our office this week, either of which "Might shake the saintship of an anchorite." The first, from the Leo Niessen Co., is an American Beauty with a Philadelphia poise.

"Her face so fair
Stirred with her dreams, as rose-leaves with the air."

The second, from George E. Dickinson Co., is a whole bunch of American Beauties, each a "special" of choicest New York grade,

"A beautiful thought, and softly bodied forth."

Personal

Mr. J. N. May is reported as again very ill, at his home in Summit, N. J.

Hugh Roak, son of George M. Roak of Auburn, Me., was married on December 28, to Miss Helen M. Dingley.

John Spalding, the veteran florist of New London, Conn., observed his ninetieth birthday anniversary on Christmas.

President A. F. Estabrook of the Massachusetts Horticultural Society is about to start for Porto Rico for a two months' absence.

Miss Edith Adams has taken the place recently vacated by Miss Viola Smith in A. N. Squire's flower store at Naugatuck, Conn.

Friends of Mr. William Scott of Buffalo, will be pleased to hear that he is recovering from his recent illness, and is able to leave his room.

Harry A. Bunyard, the popular veteran on the road, has accepted a position as travelling salesman for A. T. Boddington. "Children, get busy."

Among the Boston people reported seriously sick during the past week are W. F. Molloy, salesman for the Budlong Company, and Barney McIntee of the Montrose Greenhouses.

William A. Black of Boston, Mass., who made many friends and much renown last season as a decorator, with Foster & Foster, at the Royal Poinciana, Palm Beach, Fla., has returned there for the present season.

W. P. R. Pember, landscape architect, was married to Miss Amy G. Hewett at Highlandville, Mass., on January 2. Mr. Pember is a graduate from the Massachusetts Institute of Technology and the office of Guy Lowell. He goes to take charge of the landscape department of Green & Weeks, Buffalo, N. Y.

Our Buffalo correspondent reports that since September they have had but little rain. The streams are low, and farmers are having difficulty in getting sufficient water for their stock. This unfortunate lack of soil moisture is liable to seriously damage the ornamental evergreens about the city parks, etc., though the thaw now promised may bring relief, as the ground is but slightly frozen.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Outdoor Art and Craft

Waltham, Mass., has appropriated the sum of $300 for the purpose of moth destruction.

$30,000 is the amount asked for by the Park Commissioners of Worcester, Mass., for park maintenance for 1905.

The sum of $500 has been appropriated by the aldermen of the city of Lowell, Mass., for the use of the park commission in fighting the brown-tail tohm.

$27,809.96 is the amount paid up to date by the commission for land for the Mt. Tom Park Reservation in Hampshire and Hampden Counties, Mass. This represents an average cost of $20.70 per acre.

The Massachusetts Association for the Suppression of the Gypsy and Brown-tail Moth has begun business in a very practical way by undertaking to make every member of the legislature a member of the association.

The park commission of Holyoke, Mass., in its annual report complains of lack of funds for park work of pressing importance, and recommends appropriations for the coming year amounting to $66,000. Last year's appropriation was $7,400.

Business Changes and New Establishments

G. G. Roth has closed up his greenhouses at Chatham, N. J.

A. B. Lewis has opened a new store at 78 North Saginaw Street, Pontiac, Mich.

A new flower store at 239 O'Farrell Street, San Francisco, Cal., by the Misses Kretman.

The business conducted heretofore by the Brooks sisters, Sorrento, Fla., will be carried on hereafter by Miss Ada J. Brooks.

L. A. Spoden, Erie, Pa., has removed to the new greenhouse built on the Mrs. W. Niemeyer property, 23d Street and Parade.

E. J. Bush, formerly of Charlotte, N. C., is now manager of the Riverside Park Nursery recently started at Morganton, N. C.

J. H. Williams, a well-known New York rose grower, has gone to Kalamazoo, Mich., to take charge of the Dunkley greenhouses.

H. A. Cook, of Shrewsbury, Mass., has taken his son Morris E. Cook, into partnership, and the firm name will now be H. A. Cook & Son. Young Mr. Cook is a graduate from the Massachusetts Agricultural College.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

G. H. Hunkel will open a seed store at 327 Chestnut Street, Milwaukee.

The executive committee of the American Seed Trade Association will meet in Cincinnati, O., on Tuesday, January 10.

W. Atlee Burpee has gone on a trip to Mexico, to rest and recuperate after the strain of getting out the season's catalogue.

W. C. Rickerts, Thorburn & Co.'s popular representative, is booked for an extended trip through Long Island territory, early in the season.

FINE CINERARIAS

It is not often one sees good cinerarias nowadays, but that they are still grown and well grown, was made pleasantly manifest to us the other day on visiting the greenhouses of Mrs. C. Vanderbilt at Newport. Mr. Pow has a hundred or more of as fine plants in six and eight inch pots as we have seen in a long time, and what seems surprising in the growing of these plants is that the greenhouse without shade was their only habitation from the time the seed was sown until flowering, whereas in days gone by it was considered imperative in order to have good cinerarias that they should be grown in cold frames with the sashes sloping to the north. Cinerarias, like most other things, to do them well, need constant attention, but if results like that attained by Mr. Pow are not worth some little trouble, we know not what is.

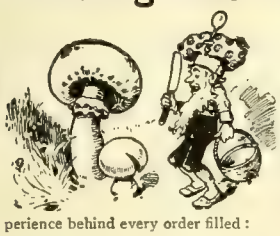
Catalogues Received

T. S. Hubbard Company, Fredonia, N. Y. Illustrated list of Grape Vines and Small Fruits. Several pages are devoted to valuable instructions in the planting and culture of hardy grapes.

Burpee's Farm Annual for 1905. Up-to-date as ever. Three colored plates that make one long for seed-sowing time to come, also a series of interesting views in the offices and work rooms of the Largest Mail Order Seed House in the World.

Julius Roehrs, Rutherford, N. J. A descriptive list of orchids, stove and greenhouse plants, exotic and tree ferns, palms, azaleas, boxwood, bay trees and flowering shrubs. The list of orchids for commercial purposes is particularly complete. Illustrations and press work are far above the average of commercial catalogues.

Gardening under Glass



Try **Watson** for select stocks of Tomatoes and other Vegetables for forcing under glass You will not be disappointed. Twenty years' experience behind every order filled:

	PKT.
FORCING TOMATOES	
Frogmore Selected	$ .25
Sutton's Best of All	.15
Lorillard (true stock)	.15
Pepper's Prolific, new	.25
Stirling Castle	.25
FORCING LETTUCES	
Emperor	.05
Hittinger's Belmont	.05
Wheeler's Tom Thumb	.05
Detroit Market	.05
Grand Rapids	.05
FORCING RADISHES	
Long White Icicle	.05
Scarlet Button	.05
Ex. ey. white tip sct.	.05
Earliest white Olive	.05
" carmine Olive	.05
FORCING ROOTS	100
Asparagus Columbian Mammoth	2.00
Rhubarb, Myatt's	5.00
OTHER FORCING VEG.	PKT.
Rockford's Market Cucumber	.25
Rollinson's Telegraph Cucumber	.25
Diamond Jubilee Melon	.55
Royal Sovereign Melon	.50
Gunton Scarlet Melon	.50
Parisian Forc. Carrot	.00
Ex. ey. Erfurt Cauliflower	.25
BOOKS	EACH
Bailey's Forcing Bk.	1.00
Morse's Rhubarb Culture	.50
Falconer's Mushroom Culture	1.00
Robinson's Mushroom Culture	.65
Watson's Mushroom Culture	free

☞Send for my catalog. Free. Stamps acceptable for small amounts. Glad to open an account with any responsible buyer. Don't forget we are "it" on mushroom spawn! Address all orders to ***"Juniper and Locust Streets, Philadelphia"*** or ***"Watson's Seed Store, Philadelphia."***

GEORGE C. WATSON

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedmen and the Horticultural trade generally.

Obituaries

John Tanner, who died on December 27, was the oldest employee in the service of Peter Henderson & Co., having been employed by that firm for nearly fifty years.

George Parker, an old-time gardener and nurseryman, formerly of the nursery firm of Parker & Henner, died at his home in Mt. Morris, N. Y., on December 25, aged 77 years.

James Dennie, Boston salesman for Budlong & Co. of Auburn, R. I., died on Saturday, December 31, of blood poisoning, resulting from a wound in the hand by a rose thorn.

Thorburn's Bulbs

Areca Lutescens Seeds

$3.00 per 1000

Lily of the Valley, pips and clumps
Lilium Auratum and Speciosum, all sorts

The Great New Potato
NOROTON BEAUTY

All who issue catalogues should not fail to include it. Descriptive circular on application.

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The HARDY ANNUAL of the CENTURY
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Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets from seedsmen throughout the United States. **Full particulars from**

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Wholesale Agents for the United States
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J. M. THORBURN & CO., Cortlandt St. N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y.

PALMS, FERNS
And Decorative Plants

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc. : : : : : : : : : : : :

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..SEEDS..
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Arlington Tested
SEEDS For the Florist.
Catalogues Mailed Free.
W. W. RAWSON & CO., Seedsmen
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The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.
Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.
Delivery strictly in rotation, beginning April first.

. . . PRICES . . .

Own root	$ 25 per	100	Grafted	$ 30 per	100
"	55 "	250	"	70 "	250
"	100 "	500	"	130 "	500
"	200 "	1000	"	260 "	1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

Pansies in Winter

It is an uncommon experience among those who grow flowers commercially, to raise the same flower year after year, to repeatedly increase the glass

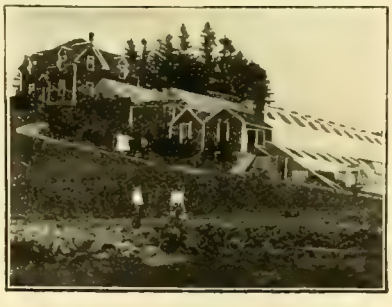


area and the product, to do this at a profit and still remain the virtually exclusive grower of the flower in question. Such, however, is the experience of W. C. Ward of Wollaston, Mass., whose range of houses together with the interior of a house appear in the accompanying cuts. Twenty-one years ago, when Mr. Ward grew his first pansies with heat, for cut blooms, a house 50 × 10 was large enough. He has now three 100 × 20 span-roof houses and a lean-to 50 × 10 filled with pansies for forcing, and was unable to cut flowers enough to fully meet the demands of his Christmas trade.

Two cold houses and a number of sashes bring his total output up to nearly twenty times that of his first year. It takes about twelve thousand plants to fill the houses. Particular attention is necessarily given to the selection of varieties possessing the qualities essential to the commercial cut flower, *i.e.*, length of stem size and markings of bloom. Great care is also taken in the selection of self-colored varieties, the demand of the trade being for comparatively distinct colors bunched separately; white, yellow, purple, blue and lavendar are put up and sold in bunches by themselves.

"I find that although there are not enough pansies brought in by other growers to materially affect the market, I am obliged to constantly improve upon my own efforts along these lines," was a statement made by Mr. Ward to the writer. The remark brought with it the suggestion that if one wishes to hear the band play, he must keep up with the procession, and this was a fact realized and made use of by the speaker.

When pansies can be picked from frames, the supply, of course, eoes not come exclusively from any one grower, but during tee forcing season there are few brought to Boston except those bo Mr. Ward. By close observation of cultural necessities as well as of the conditions and demands of the market, he has been able to keep the supply up to the demand, especially towards spring. He has had a good deal of



stem rot this season and many plants have had to be replaced, but the houses at the present time are in a generally healthy condition with the prospect of an ordinarily prosperous season and the inevitable new house in the near future.

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

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ARTHUR COWEE

MEADOWVALE FARM, BERLIN, N.Y.

ROSES FOR SPRING BLOOMING

The proper sorts. Clothilde Soupert. General Jacqueminot, Ulrich Brunner, La France, Magna Charta, Crimson Rambler, etc.: fine field-grown plants that have never been forced, suitable for 5-in. pots, at 7c.; larger for 6-in., at 12c. Crimson Rambler, XXX, long tops, 20c. Large flowered Clematis, finest purple, lavender, white and red sorts, 2-year at 18c.: 1-year at 9c. Hydrangea pan. grand., fine bushy plants, 8c. Other shrubs, etc., in cellar, priced on application. Packing free for cash.

W. H. SALTER - ROCHESTER, N.Y.

Japan Bamboo Stakes IN LARGE QUANTITIES WRITE FOR PRICES

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BULBS

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PULVERIZED

Free from all Adulteration

IN BAGS, $18.00 per TON

Special price on car load lots in bulk.

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Supply the American Florists, Nurserymen and Landscape Architects by importing to order their wants in the Horticultural and General Plant Line from the different European Centers

SEND FOR TRADE LISTS

NEWS OF THE CLUBS AND SOCIETIES

The Hartford Florists' Club presented Theodore Wirth with a handsome desk chair at its last meeting.

The New York State Fruit Growers' Association will hold its annual meeting at Geneva on January 10th and 11th.

The Western Association of Wholesale Nurserymen has changed its title to The Western Nurserymen's Association.

The annual dinner of the Florists' and Gardeners' Club of Rhode Island will take place at Providence on January 12th.

The next meeting of the New York Florists' Club will be held on Monday evening, January 9th. Officers will be installed and other exercises of more than ordinary interest are in store. Don't miss it.

Installation of officers will be in order at the inaugural meeting of the Gardeners' and Florists' Club of Boston, 17th inst. President-elect Wheeler is entitled to a rousing reception and will get it, beyond a doubt.

Visitors at the December meeting of the Horticultural Club of Boston were A. Montgomery, Jr., and R. J. Montgomery of Natick, Mass.; Thomas Roland, Nahant; Edward Kirk, Bar Harbor, Me.; C. U. Fohn, Hartford, Conn.

Bulletin No. 2 of the publications of the Municipal Art Society of Hartford, Conn., is received. It is devoted to the subject of the Grouping of Public Buildings, on which twelve papers by eminent writers are given. A number of views and diagrams illustrate the text.

The first annual banquet of the Monmouth County Horticultural Society was held at the Sheridan Hotel, Red Bank, N. J., on Thursday evening, Dec. 22. Patrick O'Mara was toastmaster. The toasts and speakers were as follows: "The Incoming President," George H. Hale; "The Outgoing President," William Turner; "The Secretary," Harry A. Kettel; "The Financial Secretary," George R. Kuhn; "The Treasurer," Wellington W. Kennedy.

Thomas W. Head was re-elected president of the New London-Groton, Con., Horticultural Society at the annual meeting, December 26. The president will deliver a lecture on the Cultivation and Diseases of the Pear at the next meeting. At the following meeting the San José Scale will be the subject for discussion. Much interest is evinced in Norwich in the work of this society and a considerable accession to the membership is looked for from that city.

All the horticultural and agricultural societies in the state of Rhode Island are about to unite in one grand federation.

This movement was inaugurated some little time ago by the Rhode Island Horticultural Society in Providence, and afterwards eagerly taken up by all the kindred societies in the state.

That the contemplated union will be of much benefit to all concerned is freely admitted; with this feeling dominant more cordial relations may also be expected, and if ever again some ruthless invader in the guise of a friend, and enjoying our hospitality, after a not too hurried retreat, slyly attacks any of us, our resentment will be mutual, and if means of retaliation be not within the reach of one, they may be within the reach of the other. Foreigners nor yet greenhorns should not make what they term 'subsidized societies' their butt of attack until they have made themselves familiar with the ways of the country.

That there should exist in nearly, if not in every, state in the Union an agricultural college or experiment station is not at all surprising, but it is a matter of surprise that in the equipment of many of these colleges very little provision is made for the furthering of the interests of horticulture or farming under glass.

As an instance of this neglect we can refer to the Agricultural Experiment Station at Kingston, R. I., where despite petition after petition to the Legislature to provide a suitable greenhouse, there is only what we may call a shanty, a disgrace to the state.

In order, if possible, to remedy this state of affairs, the Newport Horticultural Society is this year taking the lead in a supreme effort to impress upon the Legislature the needs of the college in the way of glass; that this movement will bear fruit will be earnestly hoped by many interested in this work, not only in this state, but throughout the country.

The program of the winter meetings of the Worcester County Horticultural Society is as follows:

Thursday, Jan. 5. — Annual Address. O. B. Hadwen, President. A Trip to St. Louis. J. W. Stockwell, Sutton.

Thursday, Jan. 12. — A Trip in the Far East. Miss Frances C. Morse.

Thursday, Jan. 19. — New Hampshire Out of Doors. Illustrated by Stereopticon. George H. Moses, Concord, N. H.

Thursday, Jan. 26. — Boys' Education by Doing. Frank L. Johnson, Oakdale.

Thursday, Feb. 2. — Fertilizers. W. W. Rawson, Arlington.

Thursday, Feb. 9. — Birds. Mrs. Amy Barnes Maynard, Northboro.

Thursday, Feb. 16. — Subject and speaker to be announced.

Thursday, Feb. 23. — Horticultural Specialties. Edward O. Orpet, South Lancaster.

Thursday, Mar. 2. — The Missouri Botanical Garden and its Work. Illustrated by stereopticon. Edmund A. Engler.

Wednesday, Mar. 8. — Annual Reunion.

Wednesday and Thursday, Mar. 8 and 9. — Massachusetts Fruit Growers' Convention.

Thursday, Mar. 9. — The Apple, the King of Fruits. W. D. Baker, Quincy, N. H.

American Carnation Society

The next meeting of this Society will be in Chicago, Ill., January 25 and 26, and growers of novelties should get the premium list and exhibit their flowers if possible. Premium lists and any information will be cheerfully furnished by the secretary.

Carnations Registered

By Baur & Smith, Indianapolis, Ind.

Beatrice, —This might be called a light pink Dorothy, except that the blooms come much larger. Habit of growth, length of stem and form of flower resembles that variety closely. The color is a beautiful shade of daybreak pink, a full shade lighter than that variety. Strong growth and never bursts.

Flambeau, — Large round blooms on strong stems. Strong growth and free bloomer. Stands hot weather best of any scarlet we have ever grown. Color a shade deeper than Crane.

NOTICE. — Parties having new carnations should submit the name intended for use to the Carnation Society before having it printed in any shape, so as to avoid duplication as far as practicable.

ALBERT M. HERR, *Secretary.*

Society of American Florists and Ornamental Horticulturists

Department of Plant Registration

W. L. Lewis, Marlboro, Mass., submits for registration seedling carnation Mrs. W. L. Lewis (Flora Hill × Mary Wood). Color snow white, flower three inches across, well-built, with long and stiff stem. A burst calyx has never yet been seen on it. The bloom is a good keeper.

WM. J. STEWART, *Secretary.*

H. D. Seele, Elkhart, Ind., submits for registration the following new cannas: —

HON. W. R. HEARST, scarlet, mottled and edged with golden yellow; outside of petals almost pure yellow.

SENATOR HANNA, pure orange, tinged with golden yellow.

MRS. JOHN A. LOGAN, scarlet, with broad yellow golden border; resembles Queen Charlotte.

WILLIAM J. STEWART, *Secretary.*

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	NEW YORK Jan 3	BALTIMORE Jan. 2	BUFFALO	PITTSBURG
ROSES				
Am. Beauty, fan. and sp.	60 00 to 100 00	50.00 to	..... to	..... to .....
" extra	40 00 to 50 00	35 00 to	..... to	..... to .....
" No 1	15.00 to 25 00	20.00 to	..... to	..... to .....
" Lower grades	4 00 to 10 00	10 00 to	..... to	..... to .....
Bride and 'Maid, fan. and sp.	15 00 to 20 00	12 00 to	..... to	..... to .....
" " extra	12 00 to 15.00	10 00 to	..... to	..... to .....
" " No. 1	6 00 to 8 00	8.00 to	..... to	..... to .....
" " Lower gr.	3 00 to 4 00	4.00 to	..... to	..... to .....
Liberty, fan. and sp.	25 00 to 30 00	..... to	..... to	..... to .....
" extra	15.00 to 20.00	..... to	..... to	..... to .....
" No. 1	8.00 to 12.00	..... to	..... to	..... to .....
" Lower gr.	4 00 to 5 00	..... to	..... to	..... to .....
Golden Gate / Ivory / Chatenay — Best	22.00 to	10 00 to 12.00	..... to	..... to .....
Medium	12.00 to 15 00	8.00 to	..... to	..... to .....
Culls	3.00 to 6.00	4.00 to	..... to	..... to .....
CARNATIONS				
Lawson Class	4.00 to 10.00	3.00 to 5.00	..... to	..... to .....
General Class	3 00 to 5 00	2.00 to 4.00	..... to	..... to .....
Lower Grades	2 00 to 2.50	..... to	..... to	..... to .....
VIOLETS				
Special	1.75 to	..... to	..... to	..... to .....
General	.75 to 1.00	....75 to 1.00	..... to	..... to .....
Single	.75 to 1.00	....75 to 1.00	..... to	..... to .....
ORCHIDS				
Cattleyas	50.00 to 75.00	..... to	..... to	..... to .....
Cypripediums	12.00 to 15.00	..... to	..... to	..... to .....
BULBOUS				
Lilies	12.00 to 16.00	8.00 to 12.50	..... to	..... to .....
Lily of the Valley	2 00 to 4 00	3.00 to 4.00	..... to	..... to .....
Roman Hyacinths	1.00 to 2.00	2.00 to 3.00	..... to	..... to .....
Paper White Narcissus	1.50 to 2.00	2.00 to 3.00	..... to	..... to .....
Trumpet Narcissus	..... to	..... to	..... to	..... to .....
Tulips	..... to	..... to	..... to	..... to .....
Callas	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	..... to	..... to	..... to .....
Sweet Peas	..... to	1.00 to 1.50	..... to	..... to .....
Adiantum Cuneatum	....75 to 1.00	....75 to 1.00	..... to	..... to .....
" Croweanum	..... to 1.50	..... to	..... to	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	..... to	8.00 to 15.00	..... to	..... to .....
Asparagus Plumosus, strings	..... to	25.00 to 50.00	..... to	..... to .....
" " bunches	..... to	..... to	..... to	..... to .....
" Sprengeri "	..... to	25.00 to 50.00	..... to	..... to .....

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WANTED: Consignments of High Grade Carnations

NEW YORK CUT FLOWER MARKETS

As Reported January 3

It is pleasant to be able to report that New York's New Year's trade was fully up to that of recent years, if not a little better. American Beauty roses again led in the demand and a light supply helped to a realization of good prices and a satisfactory clearing out of the stock in wholesalers' hands. Good Bridesmaids were again brisk sellers although the demand was not as keen as it was for Christmas. All red flowers were favorites. Red carnations, poinsettias, Liberty roses, etc., were gathered up in the liveliest manner.

Carnations held their own at fair figures and were generally cleaned up, white alone excepted. The supply of violets was larger than at Christmas and consequently these suffered in price. The quality was not as good either, a considerable proportion having short stems and smaller flowers. Orchids received their share of attention; also lily of the valley.

THE NEW YORK WAY

It is always an occasion for surprise to the New Yorker who, visiting the Boston flower markets for the first time, learns that no commission man is permitted to hold space therein. He recalls how, in the New York markets, the man who represents growers who do not personally market their own goods is given the same recognition as those that do, and listens with some amusement as he learns of the peculiar local prejudice against the commission wholesaler which is an inborn trait of the average Boston stall-holder.

For many years Frank Millang has conducted a commission business in the New York flower market. So harmonious have the relations been at all times that it would undoubtedly be looked upon as a misfortune to the market should Frank ever desert it. His services in providing an outlet for their product are often availed of by stall holders who appreciate the value of his alert business instincts acquired in the strenuous training that every wholesale flower dealer must undergo in the making.

Adjoining Mr. Millang's headquarters are those of Charles Smith and Bonnot Bros., both of whom also find in the flower market a profitable field for the commission business.

INDIANAPOLIS CHRISTMAS REPORT

Despite the rainy weather preceding and on Christmas day the holiday trade was the liveliest in years. The supply was all that could be wished for. A feature of this holiday business was the almost exclusive call for the best grades in every line. The prices did not seem to enter into consideration with the buyer, who asked for the best the market afforded. As usual, the sale of blooming plants was very heavy, but taste counted for more than liberal display in made-up baskets and plant combinations.

DENVER CHRISTMAS REPORT

The Christmas rush is over and apparently everybody is happy and thankful. At least the retailers ought to be thankful, to the weather man, for he furnished the kind that made wrapping for plants almost unnecessary, and the stores could keep the doors wide open without risking freezing up — quite an advantage when every available space is taken up on the inside. The long-looked-for snowstorm arrived, however, about 6 P.M. Christmas day, and it was a beauty, but too late to do any harm to the trade. Reports from the different stores indicate that business was good in all departments, some beter than a year ago. Green and holly sold well, some of the stores being sold out of these two Christmas staples earlier than was desirable, and no more to buy at wholesale, although the hucksters on the street-corners seemed to have enough for everybody.

Among plants the poinsettia led by quite a margin, the pans of low-grown plants selling especially well. We hear every year somebody making a gloomy forecast about the popularity of the poinsettia dying out, but the popularity comes back to life next year with renewed vigor, and there is no denying that for effect in a store and in a window it is a winner. Azaleas, in the cheaper sizes, sold all right, but the high priced ones did not take as well. Some very fine cyclamens were seen around and some of them sold for what may be termed fancy prices. Take it all through, all kinds of seasonable plants sold well, one good feature of the trade being that it started earlier than usual and kept right on till the snow Sunday night put an end to it for the day.

As for cut flowers they more than held their own. American Beauties and violets seemed to be scarce in some of the stores; prices about the same as a year ago. One noticeable feature, and a very encouraging one at that, was the absence of pickled stuff. Some made its appearance, but the bulk was a good fresh article.

The Park Floral Company had the walls completely covered with holly, and the store of Scott Floral Company presented a magnificent wealth of color, with electric lights colored and dimmed to match.

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Open 6 A. M.

FOR THE EARLY BUSINESS

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A reliable and always satisfactory place for

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To send his product. All varieties find takers.
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can send for stock wanted either regularly or at short notice

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are always fresh goods of same day's receipt. Prices are market prices and all orders are filled promptly.

Communications from either growers or buyers answered directly. Prices and all information required cheerfully given.

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NOVELTIES
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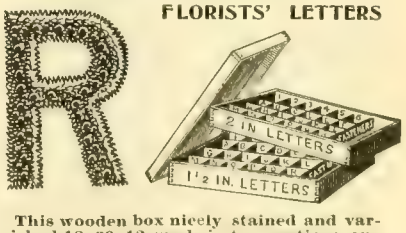
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Jan. 2	ST. LOUIS Jan. 3	PHILA. Jan. 3	BOSTON Jan. 5
ROSES				
Am. Beauty, Fan. & Sp	50 00 to	40.00 to 50.00	60.00 to 75.00	50.00 to 75.00
" Extra	40 00 to	20.00 to 35.00	40.00 to 50.00	25 00 to 40.00
" No. 1	30.00 to	..... to	20.00 to 25.00	12.00 to 16.00
" Lower grades	20 00 to ...	4.00 to 12.00	..... to	6.00 to 8.00
Bride & Maid - Fan. & Sp	10 00 to 15.00	8.00 to 10.00	..... to	..... to .....
" " Extra	..... to	6.00 to 8 00	15.00 to	10.00 to 12.00
" " No. 1	8 00 to	..... to	10 00 to 12.00	6.00 to 8.00
" " Lower gr.	4 00 to	4 00 to 6.00	4.00 to 8.00	2.00 to 4.00
Liberty, Fancy & Special	15 00 to	8.00 to 10.00	30.00 to 40.00	..... to .....
" extra	..... to	6.00 to 8.00	25.00 to	..... to .....
" No. 1	10.00 to	..... to	10.00 to 15.00	..... to .....
" Lower grades	4 00 to 6.00	4.00 to 6.00	..... to	..... to .....
Golden Gate } Best	..... to	8.00 to 10.00	15.00 to	..... to .....
Ivory } Medium	..... to	6.00 to 8.00	8.00 to 12.00	..... to .....
Chatenay } Culls	..... to	4.00 to 6.00	..... to	..... to .....
CARNATIONS				
Lawson Class	6 00 to 8.00	3.00 to 6.00	5.00 to 10.00	3.00 to 5.00
General Class	3 00 to 5.00	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Lower Grades	..... to	..... to	..... to	..... to .....
VIOLETS				
Special	..... to	..... to	..... to	1.25 to .....
General	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50	....50 to 1.00
Single	1.00 to 1.50	.50 to 1.00	...50 to .75	....75 to 1.00
ORCHIDS				
Cattleyas	50.00 to 75.00	..... to	..... to	..... to .....
Cypripediums	15.00 to 20 00	..... to	..... to	..... to .....
BULBOUS				
Lilies	16.00 to 18.00	15.00 to	20.00 to	..... to .....
Lily of the Valley	3 00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Roman Hyacinths	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	1.00 to 1.50
Paper White Narcissus	3.00 to 4.00	3.00 to	2.00 to 3.00	1.00 to 1.50
Trumpet Narcissus	..... to	..... to	..... to	..... to .....
Tulips	3.00 to 6 00	..... to	..... to	..... to .....
Callas	10 00 to 12.50	..... to	..... to	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4.00 to 10.00	..... to	..... to	..... to .....
Sweet Peas	.50 to 1.00	..... to	..... to	..... to .....
Adiantum Cuneatum	..... to	1.25 to	1.00 to	..... to .....
" Croweanum	..... to	..... to	1.50 to	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12 50 to 15 00	15 00 to	12.50 to 15.00	8 00 to 12.00
Asparagus Plumosus; strings	40 00 to 50.00	35.00 to 50.00	..... to	35.00 to 50.00
" " bunches	25 00 to 50.00	..... to	..... to	20.00 to 35.00
" Sprengeri "	25 00 to 50 00	..... to	..... to	25.00 to 50.00
Stevia	..... to ...	..... to	..... to	....75 to 1.00

Boston Notes

The week started off with an excellent demand for the general line of cut flowers. New Year's Day is not a holiday in Boston, and is not observed locally enough to make any impress on the flower market, but there are always a few people who wish to remember their friends in other places where the holiday does count for something, and these made a little life for both retail and wholesale people. The principal call was, of course, for roses, carnations and violets. The latter are more plentiful, and did not reach Christmas prices, but the sale was very satisfactory. On the other hand, bulbous material of all kinds has dragged badly. Most of the out-of-town florists grow their own supply of these things, or obtain it locally, and the shipping demand amounts to little in this line. White flowers are inclined to accumulate, but the severe storm of Wednesday has shortened up the supply in general, and no immediate stagnation is anticipated. On roses there is a disposition to ease off from the established values of the very high grades, but for the medium classes the prices are expected to remain fairly steady for the present. Carnations average very fine in quality generally.

H. Bayersdorfer & Co.

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Florists' Supplies

BEST LINE IN THE COUNTRY

BERGER BROTHERS **Roses, Carnations**

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

BALTIMORE WHOLESALE FLOWER MARKETS

The week and the new year opened up with a fairly good demand all along the line and with a good supply of material with which to fill the demand. New Year's day has never been of any special account here in the cut flower trade and it is gratifying to be able to report that business was much better than had been expected.

WHOLESALE DEALER IN GALAX LEAVES

Very best galax leaves gathered fresh from the woods — can supply 1,000 or 1,000,000, green or bronze. It will pay you to write me. Good stock, low prices, quick shipments. Telegraph orders a specialty. Wholesale trade supplied, but if your wholesaler does not handle my stock, write direct to me and get fresh galax, large or small leaves, the genuine waxy gloss color that makes galax leaves beautiful and which cannot be obtained except on fresh leaves just picked from the native woods. I can compete with any one on earth. Cold storage orders booked now for future delivery. Let me have your orders for immediate use now and you will start the NEW YEAR RIGHT.

E. H. HITCHCOCK, Glenwood, Mich. Established 1896. References: Dunns or Bradstreets, or Union Bank, Jackson, Mich.

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59 Wabash Ave., CHICAGO.

Send for weekly price list.

WHOLESALE FLORISTS

PHILADELPHIA WHOLESALE FLOWER MARKETS

As reported January 3, 1905

Week after Christmas business was unusually good and prices held up well on all lines, especially roses and carnations. On the whole, a very satisfactory New Year's trade. Also Beauties are not nearly so plentiful and have kept up wonderfully well in price. Quality nothing extra. Liberties went well, as did almost everything in red during the week. Brides and other whites moved slow, but Bridesmaids were in better demand and at fairly good prices, although Philadelphia was away behind New York as to prices on these

Carnations went very well all the week, except the white ones, which are not in demand for New Year's any more than for Christmas. Anything that looked like red sold on sight.

Violets sold fairly well, but the market was not as lively as it should have been. Good singles and Lady Campbells went best. There were a few white violets around which were in demand for special occasions.

Orchids, a little more plentiful and sold rather slowly. Price about normal. Lilies of the valley moved well with prices about as usual and quality good. Roman hyacinths and paper white narcissi, slow. Asparagus and other greens in good demand, rather better even than before Christmas, there being a good deal of decorating work around.

CHICAGO FLOWER MARKET

Report for week ending Jan. 2, 1905

As predicted a week ago, there has been an increase of stock in all kinds, even carnations. We have had a spell of balmy breezes accompanied by an unusual lot of sunshine, and consequently there was a heavier supply than was anticipated. Prices held remarkably well. Retailers turned the tables on the commission men this week. The bright weather and limited orders on long Beauties enabled them to dictate prices on this item, the best grades of which can now be had for $6 per dozen. The call for teas (extra quality) is phenomenal, the demand far exceeding the supply, and these are holding at steady prices. There are some very fine carnations seen here. Enchantress, Estelle, Mrs. Patten, Nelson Fisher and Harlowarden, are the most popular, with white as a second choice.

Violet receipts the past week were spasmodic. At one time this week there was a shortage and with the ending of same the eastern growers unloaded big shipments in anticipation of heavy New Year's day demand. Local inquiry was far below expectation, however, and the heavy consignments Saturday, Sunday, and Monday proved far too much above the needs of the trade. There was a brisk call for smilax and short-cut asparagus. Also a rally on bulbous stock. Callas have declined to $1.50 per dozen.

CHICAGO NEWS ITEMS.

C. M. Dickinson of E. H. Hunt's is around again after a serious illness. — Wife of William Schreiber, 221 Garfield Ave., died this week. Funeral Sunday, January 8. — Flint Kennicott is laid up with bronchitis.

HOLIDAY REPORT FROM NEWPORT, R. I.

The florists of Newport have nothing to complain of in regard to the amount or the nature of the business transacted during the Christmas and New Year holidays.

In most lines the demand far exceeded the supply. This was the case especially with roses, and in a lesser degree with carnations and violets. All of these brought better prices and readier sales than last year.

What contributed somewhat to the abnormal demand, was that during Christmas week there were some very heavy funeral orders, in the filling of which stock was used that might otherwise be pickled, if we may use that term still. Plants found a ready sale, especially Lorraine Begonias, Poinsettias, and the various types of Nephrolepis, but N. Scotti seemed to be a prime favorite with the Christmas buyer.

Taken all in all, Newport florists have had a fair share of the wave of prosperity that has swept over the country.

White Lilacs and Cattleyas

Samuel S. Pennock

The Wholesale Florist of Philadelphia

Directory of Clubs and Societies

Secretaries are respectfully requested to promptly notify HORTICULTURE of any changes of officers of their respective societies.

CINCINNATI FLORIST SOCIETY, Cincinnati, Ohio. — Pres., Benjamin George; Vice-Pres., Gus Adrian; Sec'y, Geo. Murphy; Treas., J. W. Rodgers. Meetings second Saturday of each month, three exhibitions held each year.

CANADIAN HORTICULTURAL ASS'N. — Pres., G. A. Robinson; 1st Vice-Pres., W. Suckling; 2d Vice-Pres., C. G. Johnson; Treas., H. Simmers; Sec'y, A. H. Ewing. Next annual meeting in Montreal, probably in August.

COLORADO SOCIETY OF FLORICULTURISTS, Denver, Colo. — Pres., John Satterthwaite; Treas., Mrs. J. M. Johnson; Sec'y, J. A. Valentine. Annual meetings, third Thursday in January.

THE DETROIT FLORIST CLUB, Detroit, Mich. — Pres., Robert Watson; Vice-Pres., L. Bemb; Treas., Walter Taepke; Sec'y, J. F. Sullivan; Librarian, Norman Sullivan. Meetings first and third Wednesday of each month.

THE GARDENERS' CLUB OF BALTIMORE, Baltimore, Md. — Pres., John A. Cook; Vice-Pres., Fred C. Bauer; Rec. Sec'y, John J. Perry; Fin'l Sec'y, Philip B. Welsh; Treas., Fred G. Burger; Librarian, Chas. M. Wagner. Meetings second and fourth Monday of each month.

FLORISTS' CLUB OF PHILADELPHIA, Philadelphia, Pa. — Pres., John Westcott; Vice-Pres., David Rust; Treas., J. W. Colflesh; Sec'y, Edwin Lonsdale. Meetings first Tuesday of each month.

MILWAUKEE FLORIST CLUB, Milwaukee, Wis. — Pres., W. A. Kennedy; Vice-Pres., Fred H. Holton; Sec'y, Herman V. Hunkel; Treas., C. Dalwig. Meeting first Tuesday of each month.

MASSACHUSETTS HORTICULTURAL SOCIETY: — Pres., Arthur F. Estabrook; Vice-Pres., Robert T. Jackson; Treas., Chas. E. Richardson; Sec'y, Wm. P. Rich.

MONTREAL GARDENERS AND FLORISTS' CLUB, Montreal, Can. — Pres., Jos. Bennett; 1st Vice-Pres., Alex Gibb; 2d Vice-Pres., A. Walker; Sec'y-Treas., Wm. H. Horobin.

TARRYTOWN HORTICULTURAL SOCIETY, Tarrytown, N. Y. — Pres., James Ballantyne; Vice-Pres., Joseph Bradley; Sec'y, Edward W. Neubrand; Cor. Sec'y, Thos. A. Lee; Treas., James T. Lawrie. Meetings last Thursday of each month.

MONMOUTH COUNTY HORTICULTURAL SOCIETY, Oceanic, N. J. — Pres., Wm. Turner; Vice-Pres., George Hale; Sec'y, H. A. Kettel; Fin'l Sec'y, Geo. R. Kuhn; Treas. W. W. Kennedy. Meetings first and third Fridays of the month; annual exhibition early in November.

TUXEDO HORTICULTURAL SOCIETY. — Pres., Wm. Hastings; Vice-Pres., Thos. Murray; Sec'y, James MacMachan; Treas., George Stewart. Meetings first Tues. after the first of each month.

THE WESTCHESTER COUNTY HORTICULTURE SOCIETY, Mount Kisco, N. Y. — Pres., A. L. Marshall; Vice-Pres., Wm. Wills, Katonah; Sec'y, Herbert A. Spavins. Meets every month; annual reunion at Mount Kisco.

INTERNATIONAL SOCIETY OF ARBORICULTURE, Connersville, Ind. — Pres., Wm. J. Palmer; Sec'y-Treas., John P. Brown.

NEW BEDFORD FLORIST CLUB, meets second Thursday of each month.

NEW ORLEANS HORTICULTURAL SOCIETY. — Pres., Harry Papworth.

NEBRASKA FLORIST SOCIETY, Omaha, Neb. — Pres., W. R. Adams; Vice-Pres., George Soranson; Sec'y, Lewis Henderson; Treas., George Swoboda. Meetings second Thursday of each month.

SOCIETY OF IOWA FLORISTS, Des Moines, Ia. — Pres., J. T. Temple; Vice-Pres., R. L. Blair; Sec'y, Wesley Greene; Treas., G. A. Heyne.

UTICA FLORIST CLUB. — Pres., F. J. Baker; Vice-Pres., Seward Hakes; Sec'y, J. C. Spencer; Treas., C. F. Seitzer. Meeting first Thursday of the month; Chrysanthemum meeting in November; Carnation meeting in February; annual outing and clambake in August.

HOLYOKE HORTICULTURAL SOCIETY, Holyoke, Mass. — Pres., E. A. Reed; Treas., Chas. E. Mackintosh; Sec'y, Geo. H. Sinclair. Meetings first Wednesday in the month; Exhibition, Rose show in June.

IOWA STATE HORTICULTURAL SOCIETY, Des Moines, Ia. — Pres., P. F. Kinne; Vice-Pres., W. A. Burnap; Sec'y, Wesley Greene; Treas., Elmer M. Reeves. Annual meeting at Des Moines, Dec. 13–16, 1904.

NORTH SHORE HORTICULTURAL SOCIETY, Manchester, Mass. — Pres., P. R. Sanborn; Vice-Pres., W. B. Jackson; Treas., James McGregor; Sec'y, James Salter; Fin'l Sec'y, Herbert Shaw. Meetings first and third Fridays of each month.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY. — Pres., R. P. Pryde; Vice-Pres., Thos. Pettit; Sec'y, Patrick Keane; Treas., David Kydd. Meetings first and third Tuesday of the month

LENOX HORTICULTURAL SOCIETY. — Pres., R. A. Schmid; Vice-Pres., Wm. Woods; Treas., E. Jenkins; Secy., George Foulsham; Asst. Secy., C. O. Duncan.

HAMPDEN COUNTY HORTICULTURAL SOCIETY, Springfield, Mass. — Pres., Jacob C. Lutz; 1st Vice-Pres., Adolph Miellez; 2d Vice-Pres., Joel H. Hendrick; 3d Vice-Pres., Lewis D. Robinson; Treas., J. Stuart Kirkham; Sec., William F. Gale, City Hall, Springfield.

ST. LOUIS FLORIST CLUB. — Pres., Chas. A. Juengel; Vice-Pres., W. J. Pilcher; Treas., Fred H. Meinhardt; Sec., Emil Schray; Trustees, F. C. Weber, E. W. Guy, Theo. Miller. Meetings second Thursday afternoon of each month.

ADVERTISEMENTS
FOR
NUMBER
SEVEN

Should reach us by Monday, January 9, if possible, or Tuesday, January 10, at latest.

In such a paper as this every cent spent in advertising is spent wisely, for every line is a paying investment.

Have You an Employee or a Friend in the Business

To whom you would like to make a useful New Year's Gift?

Then send him

Horticulture

For

1905

Your gift will be new every week

The best present in the world for $1.00

NEW DAISY

Queen Alexandra

We are now booking orders for delivery during the latter part of February for this charming new form of Chrysanthemum Frutescens or Paris Daisy, an introduction from South Africa, and a plant which should prove desirable both as a cut flower as well as a pot plant.

The illustration shows three forms of flowers which appear on the same plant. The double and semi-double form are not unlike an Anemone-flowered Chrysanthemum.

PRICE:

20c. each, $2 per doz., $15 per 100



HENRY A. DREER, Philadelphia, Pa.

RICHMOND

The long-looked-for RED FORCING ROSE. Fine as Liberty, Free as Bride, Easy of Culture, Deliciously Fragrant.

Price, for April Delivery

PER 100	PER 250	PER 500	PER 1000
$30	$70	$125	$250

E. G. HILL COMPANY, - Richmond, Ind.

Carnation Cuttings

	Per 100	Per 1000
ENCHANTRESS,	$3 50	$30 00
FAIR MAID,	2 50	20 00
THE QUEEN,	3 00	25 00
QUEEN LOUISE,	2 00	15 00
LAWSON,	2 50	20 00
CRESSBROOK,	2 00	15 00
CHALLENGER,	2 00	15 00
MACEO,	2 00	15 00
HARRY FENN,	3 00	25 00
PROSPERITY,	2 50	20 00
BRADT,	3 00	25 00
FIANCEE,	12 00	100 00

C. Warburton, Fall River, Mass.

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

CARNATIONS

SELECTED YOUNG STOCK

Flamingo, Enchantress, Queen, Queen Louise, Walcott, Lawson, Floriana, Lord and

FIANCEE

Kaiserin roses and Chrysanthemum Novelties. *WRITE FOR PRICES*

Fine large Duckham Chrysanthemum Stock plants at $1.25 per doz.

ROBERT C. PYE, NYACK N.Y.

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J. M. Thorburn & Co., New York.

ASTER SEED.
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Benthey's White. Benthey's Pink. Trade pkgs., $1; ½ oz. $4.50; ¼ oz., $2.50; oz., $8. Benthey-Coatsworth Co., 35 Randolph St., Chicago.

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Nathan Smith & Son, Adrian, Mich.

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Tuberoses, Cannas, etc.

CANNAS.
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Nathan Smith & Son, Adrian, Mich.

CARNATIONS.
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Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.

Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa.

Robert C. Pye, Nyack, N. Y.

A. M. Herr, Lancaster, Pa.

Red Lawson, $10 per 100; $75 per 1000. W. J. Palmer & Son, Lancaster, N. Y.

Variegated Lawson. Per 100, $12; per 1000, $100. F. R. Pierson Co., Tarrytown, N. Y.

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A. Leuthy & Co., Roslindale, Mass.

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A. Leuthy & Co., Roslindale, Mass.

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H. M. Robinson & Co., Boston.
H. Bayersdorfer & Co., Philadelphia, Pa.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

FLORISTS' LETTERS.
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Boston Florist Letter Co., 84 Hawley St., Boston.
Koral Mfg. Co., 26 Hawley St., Boston.
G. A. Sutherland Co., 34 Hawley St., Boston.

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Geo. M. Stumpp, 5th Ave, cor. 58th St., New York.
Thos. Young, Jr., 43 W. 28th St., New York.

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Wm. J. Boas & Co., Philadelphia, Pa.

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A. M. Herr, Lancaster, Pa.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
Sharp, Partridge & Co., 22d and Union Place, Chicago.

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Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.

GRAPE VINES, HOTHOUSE.
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston. Strong Planting Canes, all best sorts, each $3.50.

GREENHOUSE BUILDERS.
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Lord & Burnham Co., Irvington-on-Hndson, N. Y.
Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
Hitchings & Co., 233 Mercer St., New York, N. Y.

HARDY FERNS AND SUPPLIES.
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H. M. Robinson & Co., Boston.

HARDY HERBACEOUS PLANTS.
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M. H. Walsh, Woods Hole, Mass.

HELP.
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Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.

HEATING APPARATUS.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y.
Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
Hitchings & Co., 233 Mercer St., New York.

IMPORTING HOUSES.
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August Rolker & Sons, 31 Barclay St., New York
Plants tender or hardy.
R. M. Ward & Co., New York. Plants and Bulbs.

JAPANESE PLANTS.
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Hinode Florist Co., 5th St., Woodside, N. Y.

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S. S. Pennock,
The Wholesale Florist of Philadelphia.

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Plants and Cut Blooms Hinode Florist Co., 5th St., Woodside, N. Y.

LILY BULBS.
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J. M. Thorburn & Co., New York.

LILY OF THE VALLEY PIPS.
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J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

NICOTIANA SANDERÆ.
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Sander & Sons, St. Albans, Eng.

NEPHROLEPIS PIERSONII ELEGANTISSIMA
For page see List of Advertisers.

2½-in pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

ORCHID PLANTS.
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Lager & Hurrell, Summit, N. J.

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E. G. Siggers, Washington, D. C.

POTATO, NOROTON BEAUTY.
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Alex. McConnell, New York.
George M. Stumpp, New York.
Dards, New York.
Thomas Young, Jr., New York.

ORCHID FLOWERS.
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Chas. W. McKellar, Chicago.
S. S. Pennock,
The Wholesale Florist of Philadelphia

ROSES.
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Kaiserin Roses. Robert C. Pye, Nyack, N. Y.
W. H. Salter, Rochester, N. Y.
Rose Richmond, per 100, $30; per 1000, $250. E. G. Hill Co., Richmond, Ind.
M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
New Rose Wellesley. Waban Rose Conservatories, Natick, Mass.

SEEDS.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
Thos. J. Grey & Co., 32 S. Market St., Boston.
George C. Watson, Juniper & Locust Sts., Philadelphia, Pa. Forcing Tomatoes. Forcing Lettuces. Forcing Radishes.
Arthur T. Boddington, 342 W. 14th St., New York. Gloxinias, Tuberous Begonias, etc.

SHEEP MANURE.
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Robert Simpson, Clifton, N. J.

VENTILATING APPARATUS.
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Hitchings & Co., 233 Mercer St., New York.
Pierson-Sefton Co., West Side Av., Jersey City, N. J.
Lord & Burnham Co., Irvington-on-Hudson, N. Y.

WHOLESALE FLORISTS.
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J. A. Budlong, Chicago.
Chas. W. McKellar, Chicago.
Wieland & Risch, Chicago.
Chas. Millang, New York.
Welch Bros., Boston.
Frank Millang, Flower Growers' Market, 55-57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Geo. Saltford, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516-1518 Sansom St., Philadelphia, Pa.
John I. Raynor, New York.
W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York
Moore, Hentz & Nash, New York.
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S. Pennock, The Wholesale Florist of Philadelphia.

WIRE.
For page see List of Advertisers.

H. F. Littlefield, Worcester, Mass.

Greenhouse Glass Prices are Advancing

Call at our store, or send us a small sample order, to see the superior makes of glass we sell at Lowest Prices

STANDARD PLATE GLASS CO., Boston, Mass.
26-30 Sudbury St. On the Corner 61-63 Portland St.

LIST OF PATENTS

Issued December 27, 1904



778,786, Clip for Flower-Pots. Judson A. Kramer. Marion, Ia.

778,294, Hand Plow. Thomas L. Wilcox, Clarion, Ia.

778,688, Plant-protector. Cyrus Marsh, Ashland, Va., assignor of one-half to Burrell H. Marsh, Winston, N.C.

712,297, Fruit-Grader. Robert Strain, Fullerton, Cal., assignor to Fred Stebler and Austin A. Gamble, Riverside, Cal.

778,690. Fertilizer-Distributor. Martin H. Meyer, Pender, Neb.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G, Washington, D. C., by mentioning HORTICULTURE.

Greenhouses Building or Projected

PONTIAC, MICH. — A. B. Lewis, rose house.

WEST HOBOKEN, N. J. — John Birnie, houses 28 × 120, and one 10 × 50.

LEHIGHTON, PA. — Paul Niehoff, house 30 × 75.

Chester F. Brainard, who for the past six years has been in the employ of his brother D. William Brainard, Thompsonville, Conn., has purchased from F. N. Allen a tract of about ten acres of land known as the J. B. Allen Farm. The land is on the main trolley line between Hartford and Springfield in the north end of the village of Thompsonville.

Mr. Brainard expects to start into the nursery, plant, and bulb business this coming spring, and plans to work into the wholesale florist business as well. Operations will be commenced as soon as possible in the spring and some building will be done this coming season.

WANTS

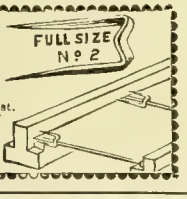
Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

FOR SALE — One of longest established rose-growing establishments within five miles of Boston. For particulars, inquire at office of HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — By first-class Carnation Grower, willing and able to fill position of responsibility. Address "W. J." Care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — By young man, good experience with all kinds of plants, flowers and hothouse fruits. Good references, private or commercial. Address "A," Care HORTICULTURE, 11 Hamilton Place, Boston.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



PATENTS
CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.
Send your business direct to Washington, saves time, costs less, better service.
My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the
INVENTIVE AGE
illustrated monthly—Eleventh year—terms, $1. a year.
E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

The ANGLE LAMP
is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps.*
The ANGLE LAMP
is *guaranteed* as *represented* in every respect, or *money* refunded.
The ANGLE LAMP
gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*
Globe Gas Light Co.
77 and 79 Union St. :: :: BOSTON, MASS.
New England Agents. Send for catalogue.

FLORISTS' WIRE
Stemming Wire cut 9 or 12 inch, or in Stones
GALVANIZED WIRE FOR TYING
H. F. Littlefield, WORCESTER MASS.

GLASS Buy Now and Save Money

We have something special on both Hotbed and Greenhouse sizes. Be sure and get our prices before placing your order, either for carload lots or less.

SHARP, PARTRIDGE & CO. 22d and Union Place **CHICAGO**



Designed and erected for Judge W. H. Moore, Pride's Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
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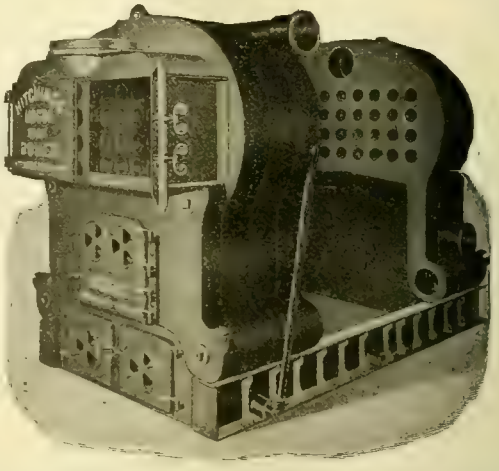
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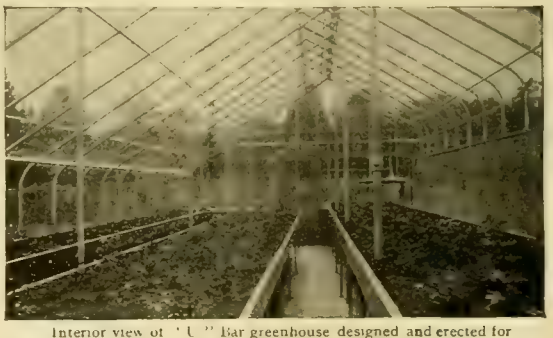
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HORTICULTURE

Vol. I JANUARY 14, 1905 No. 7



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GRAPE-GROWING UNDER GLASS

I have known people who would be glad to change a greenhouse into a grapery were it not that they hesitated because of what is sometimes erroneously supposed that in order to ensure any reasonable degree of success, it is absolutely necessary to have a border outside whereinto the vines can extend their roots. That such a border is not necessary I know by my own experience, the results of which may in some measure interest others.

Sixteen years ago I planted a house with Muscat of Alexandria and Black Hamburg, and because of the existence of insurmountable obstacles in the shape of a path which was indispensable, and underneath which was a sewer equally if not more indispensable, it will be seen that it was not from choice but from necessity I had to do without an outside border.

I planted good, strong, two-year-old canes, and from the second year after planting never experienced a failure, but on the contrary, year after year the vines carried such a crop that gave rise to periodical fears lest each year's crop, by reason of its size and by the absence of what was supposed to be the necessary sustaining power of an outside border, should be the last for some time. Recognizing the fact, which is of course always admitted, that the temperature and other conditions of the environment of each component part of nearly if not of every tree or plant should be uniform, perhaps the want of a place where the roots of the vines must go to be drenched and chilled in season and out of season, whether the gardener wills it or not, need not be considered a matter of so much regret after all.

It may be conceded that an outside border adds to the resources of the vines, but if it is always carefully seen to that each season the top and spent soil is removed from the roots, not by means of a spade, fork, or hoe, but first loosened with a wooden peg and then gathered with the hands and removed, the while taking great care that none of the fibrous roots get broken or bruised, this being done a rich compost is laid on and among the roots to the depth of at least three inches. The compost for a grapery border, especially where the only sphere of activity of the roots is inside, should of course contain everything necessary for the roots to feed on, or, as we are being taught now-a-days, for the microbes to feed the roots on. For such a compost the following three component parts are perhaps indispensable: cow manure, good sod (not much rotted either) and bone meal. Many persons leave the cow manure out of the compost, instead using it as a mulch for the surface, which when watered heavily constitutes a liquid manuring. This, too, seems quite reasonable, but it has also been found to be very beneficial to use some cow manure with the loam and bone meal — its existence there may help to sustain the microbes we have before referred to if for nothing else. Seriously, however, cow manure in the soil beneath the surface may be considered a necessity for grapevines, the roots of which are confined indoors, because it retains a certain amount of moisture at all times, even if the surface is quite dry, which it sometimes must needs be.

The purpose of this article is not to endeavor to show that it is under ordinary circumstances preferable to confine the roots of grapevines indoors, but to show by the writer's own experience that should obstacles such as he had to contend with present themselves to any one else, there need be no hesitation in going ahead and be reasonably sure of equally satisfactory results in the shape of good berries, good bunches, and good crops for fourteen years, with promise of like results to come, as this year's wood is as strong and as well matured as that of any former year.

That where very early grapes are required, a positive advantage may be found in an exclusively inside border, is not to be scoffed at for various obvious reasons, chiefly that the agency by which an artificial season is created is confined in its operations by reason of a part of that object for which this agency is employed, although not detached, is yet disadvantageously located from the other.

After writing the article of which these lines form a part, I received my weekly copy of HORTICULTURE, and about the first thing therein that attracted my attention was an able contribution from Mr. W. Downs on the cultivation of grapes under glass. My first thoughts then were that Mr. Downs, in his article, had covered the whole ground, and hence the probable uselessness (for publication at least) of what I had written. If both articles had been written on the same distinct lines and with the same end in view, then, comparatively speaking, there would still seem to be but little need of what I attempted.

Mr. Downs, in his article, however, treats, and that ably, of the cultivation of the grape, I may say, from start to finish, while I, on the other hand, only attempt to tell what has been my actual experience in the growing of grapes under conditions popularly supposed to be unfavorable, and if the results of this experience as related will have any effect in removing what is only supposition and nothing more, then what I have already written may be of some use.

David McIntosh.

What Our Successors Are Doing

Not for a long time have I seen in any of our papers anything relating to the many young men who are now engaged in following and preparing themselves to ultimately fill some responsible position in some of the branches of our loved profession.

Young men who are just launching out, need all the encouragement and instruction that can be given to them, let it be in whatever branch they may have selected. The young men of to-day have immensely greater facilities to learn than I had when I started, over fifty years since. At that time there were but few books and still fewer periodicals that boys and young men could even look at, much more possess. Whoever selects any of the branches of horticulture to follow as a livelihood must have a love for it or else get away from it. Now, what I want to say is that we men of experience should take hold of the young fellows and push them along as if they were our own children. Get them interested in every phase that bears on their future development; let them understand that what shall be done must be done in the best manner; interest them with discussions and encourage them to make experiments.

The young men, on their part, should intelligently study any and all subjects relating to the pursuit, even though some of the matters may be remote. Don't stop at being a good carnation grower or a good rose grower; delve wider into the field. A short time since a young man who is an excellent grower of chrysanthemums called on me and we went to Washington Park. In the conservatory were several plants of Begonia incana, which we know has very heavy wooly leaves. This young man said, "I don't see why they want that old coltsfoot in a place like this." I need hardly say how sorry I felt for him.

In looking carefully over the horticultural field and at what will surely happen in the future, and that at a not very far distance of time, it is evident that the demand for thorough gardeners — men who can grow and produce fruits, flowers, and vegetables of whatever kind — will be such that it will be difficult to find men to fill such situations. Surely the time is passing when we should have to go to Europe for nine-tenths of the men for such positions.

Boys, I want to ask you whether there is any profession that affords as much respect and true pleasurable life as that of a gardener? I wish you would start right now and map a pathway leading to the front which you can follow and obtain by persistent application.

John Thorpe

Violets in Cold Frames vs. Greenhouses

I would like to give my experience with violets for the past fourteen years. I know it will not be of much importance to the specialist, but to anyone circumstanced as I am, I hope it may be of some benefit.

We started with cold frames, growing such varieties as Marie Louise and Swanley White, both varieties doing well. The Farquhar and Campbell were tried when they came out, with excellent results, the former with large blooms on long stems and a fine dark color. But the trouble with the frame culture came with the severe weather. We could not open them for a week at a time. When that kind of weather came often, it meant a lot of mildewed, rotten leaves and flowers. Then we built a sash house (lean-to style) against the south side of rose house, about 7 feet wide by 5½ feet high at back, with a bench on south side and path on north side. The height of bench brought the front row of plants about a foot from the glass. The varieties planted were Campbell, the Farquhar, and Princess of Wales. They did not do as well as I thought they should; more or less disease would get in somehow, although there was ventilation left on until hard, freezing weather. It seemed to me as if there was not volume enough of air, so on the 14th of last October we tied down our grapevines and planted a bench in the grapery, mostly Princess of Wales, a few Campbells, and Marie Louise. A month later, after we had the single-stem chrysanthemum benches emptied, we planted one bench with Princess of Wales, and this is what I wanted to tell you about. What a success they are! Both benches in grapery and greenhouse are, at this date, a mass of bloom and fine healthy foliage. The plants in grapery are much stronger with longer flower stems than those in greenhouse, I suppose owing to being planted a month earlier, but the greenhouse ones seem more prolific. The temperature for both houses is 40° to 45° at night, according to the weather; day temperature about 60°. The Campbell and Marie Louise have not done as well accordingly as I expected; perhaps it was owing to the late planting and low temperature. However, I intend to give them a better test next year.

The success of Princess of Wales in the greenhouse and grapery — against the two years' trial in low sash house in front of rose house, seemed to substantiate my theory that a large house with a greater volume of air was necessary for success with the violet. I would like to hear from some others on this subject.

V.

Luculia Gratissima and Calanthe

I was much interested in Mr. Storer's description of the display of calanthe put up by the veteran George McWilliam. I seemed to be transported by the narrative to the scene and to enjoy the display nearly as much as if I was actually on the spot, for I have vivid recollections of seeing a similar exhibit put up by Mr. McWilliam a few years ago. I also recall the pleasure it gave all present on that occasion, of which there were a goodly number. The whole party was right royally entertained at a substantial repast by the Whitin family, and their gracious manner and the evident pleasure it gave them to entertain the company will, I am sure, always remain engraved on the hearts of all the members present; for not only did the members of the family go to considerable trouble in providing the repast, but, constituting themselves our waiters and waitresses, minutely looked after each one's wants, inspiring thus a "home-and-at-ease" feeling that made a lasting impression.

Returning to calanthe, undoubtedly as Mr. McWilliam grows them they constitute a bulwark for conservatory decoration at this dull season of the year. They are also useful for cutflower purposes, as they last a long time; albeit they are the ugliest of orchids when in flower and standing alone, as they are then devoid of foliage, or should be if properly handled. Yet in combination with light-green foliaged plants, such as ferns, the smaller and more graceful types of palms and dracænas, they make a splendid show, which has the merit of being lasting as well as brilliant.

I was particularly interested in the mention of that good old Nepaulese plant introduced in 1823, and yet scarcely known here, Luculia gratissima. I imagined myself as I was perusing this part of Mr. Storer's story, that I was inhaling the delicious fragrance characteristic of the flowers of this plant. As to the color of the flowers, Mr. Storer has described it professionally, as a "rose madder tint of pink"; to most of us fellows who cannot grasp the technicalities of color combinations as do Mr. Storer and his professional ilks, I would plainly and off-hand say it is a pleasing rose-pink when the flowers unfold at first, fading with age to a lighter pink.

I am pleased to be reminded by the existence of this plant and similar old favorites of by-gone days, to be found under the charge of Mr. McWilliam, that Mr. McWilliam is one of the too few relics of the old school of gardeners who likes to cling to good old plants, requiring somewhat more painstaking care than the softer-wooded and more rapid-growing kinds of plants that the average present-day gardener seems to pin his reputation to. I hope that George will not take offence at the word "relic," for it is intended to be complimentary, and I intended to also add (and not patronizingly either) that he is equally capable of upholding his end in the methods and with the plants in vogue to-day with the next one, as any one who may visit the place under his charge can ascertain for himself. There! I think that will smoothen matters somewhat.

Luculia gratissima is not a particularly difficult plant to grow, as some think it is. It is comparatively easy to propagate from cuttings, only requiring, like all hard-wooded and semi-hard-wooded plants, a longer time to root than the softer kinds, which is simply a characteristic and not necessarily a difficulty. Plants in four and five inch pots, which can be obtained within a twelve-month, with a single tolerably large hydrangea-like head of flowers, are a nice and serviceable size, especially when they are grown in quantity. Larger plants can be had by keeping them from year to year, and pruning them well back, giving the necessary care in syringing in season, and other details bearing on their welfare. They thus make large bushy plants, and, if well flowered, are exceedingly effective thus treated.

A warm greenhouse is best suited for them, such as will suit carnations. In the early part of the season, when they are breaking and starting to grow, they may be introduced to a temperature a few degrees higher than a carnation-house temperature. It is unquestionably easier to manage planted out in an inside border in the proper greenhouse, and is then seen to much better advantage.

As I write this I am reminded of some statements regarding this plant that I came across a few years ago in the English Garden periodical, and at a time that I was interested in the growing of this plant myself on a small scale, that made me fairly envious. For the benefit of your readers I have located the particular reference in vol. xxx, and page 559 of the above paper. A Mr. William Culverwell, writing about this plant, says; "Our old plant here is in great beauty; the blooms on it were counted on Dec. 1, 1886, and they numbered 480 heads open and unopened. We once had 672 heads of bloom on it; but it has been considerably reduced of late, as it overgrew everything near it. It was planted in a small border, fifteen inches wide, thirty-five years ago, and it has never been disturbed since. It is top-dressed every season, and is given a little weak guano water when making its growth."

By the above it will be seen that this plant, planted out in a proper place, is not of the difficult kind some would make it out to be. A plant that stood for thirty-five years in a small border of fifteen inches wide, with simply a top-dessing yearly, giving off of its beautiful pink and exquisitely fragrant flowers in abundance during that time, cannot be regarded as especially stubborn to handle. And just think of 672 flowers at once on this plant! Talk about orchids, they would be simply nowhere, against an array of such glorious beauty as was thus presented on one plant.

N. Finlayson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

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11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Our Pittsburg correspondent very appropriately reminds our readers of the approach of McKinley Day, January 29th, and the commendable custom, advocated by the Carnation League, of commemorating the day and the man by wearing a carnation. Florists everywhere should encourage the beautiful sentiment.

We are often told that careful accounting and accepted business methods are conspicuously absent in the management of a large proportion of our floricultural establishments. Unquestionably there is some foundation for the criticism. In these days of unrelenting rivalry, neglect in this direction is too great a risk. Watch the profit and loss account.

Despatches from Trenton, N. J., where the New Jersey State Horticultural Society has been holding its annual meeting, inform us that the Society decided because of hostile public sentiment, to abandon its proposed demand for a law permitting the killing of robins on account of their destruction of small fruit. Let us hope that public sentiment may continue to assert itself zealously in so good a cause.

The article on florists' palms, reprinted from the *Journal of Horticulture*, in this issue, strikes a responsive chord on this side of the Atlantic. It would seem that the time is now ripe for our commercial decorative plant growers to enlarge upon the meager list of palms offered for general use. There is a good field for a wider variety and there are many easily-grown and beautiful subjects that need but to be known to become popular.

In the training of a broad-gauge, useful florist, probably no one factor counts for so much as association with his fellow-florists. Intelligence and capability grow by contact. For this reason, if for no other, every one interested in carnation culture should attend the approaching meeting at Chicago. A man who shuts himself out from the great intellectual and material advantages offered by these recurring meetings and conventions does himself a great and lasting injury.

We are told by those who are in a position to make a wise forecast that "flush times" are coming. Perhaps this is the best news that the incoming New Year brings us. But flush times are not without their dangers, and while we make hopeful preparation to enjoy whatever good fortune they may bring us, it will not be amiss if we do so with a reasonable amount of conservative caution and with a determination to keep always on the watch against any temptations to recklessness.

Undisciplined prosperity sometimes turns out to have been a misfortune. We are apt to lose sight of the fact that the tide will turn again and the time then come when we will look back and wish we had built less extravagantly, given credit less freely, and followed more closely those business principles that served us so well in adverse times. Of the loose methods that appertain to the business management of the average florist, one of the most common is credit-giving to an extent greatly disproportionate to the amount of business done. The willingness to take chances beyond what ordinary prudence would sanction is probably due largely to the transitory nature of the goods handled which, especially in periods of abundance, we naturally regard as better sold to a risky customer than not sold at all. Be that as it may, it is an undeniable fact that the majority of florists, — growers, wholesalers, and retailers, — have on their books to-day an excessively large amount of credit of which a goodly percentage must eventually find its final resting-place on the bad side of the profit-and-loss account. And it is, as a matter of course, true that this condition is sure to be aggravated in "flush times." It would be a great blessing to the trade if a closer accounting all along the line could be brought about, and anything that we can do individually or collectively toward this end should be done. It would mean a long step forward in the elevation of our profession to a higher plane and a better standing in the business community.



What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

I am glad to inform you that the florists bringing flowers to the market are all pleased with HORTICULTURE because it is filled with good, useful reading. — N. F. C.

It gives me great pleasure to receive HORTICULTURE. It is pithy and to the point; a journal that every one in the profession ought to read. Please find check for $1. — W. W.

HORTICULTURE is full of good instruction, with many elegant half-tone engravings. This journal gives promise of a successful career, because practical and well prepared. We welcome it as an exchange. — *Arboriculture.*

Allow me to congratulate you on the appearance of the first few numbers of HORTICULTURE; it is a success from the beginning. Anything I can possible do for you, you may depend on me. Will have some advertising later on. Yours in the faith. J. A. P.

After Adjournment

Don't be in too great a hurry in forcing those tulips. Give them time.

The violet market seems to have taken a precipitate tumble in most of the eastern markets. Inclement weather such as has been experienced of late is fatal to the transient city demand for violets, but the violets themselves appear to like it and bloom bountifully.

Slowly but surely we see the list of varieties in florists' regular cut flower stock increasing. Daisies, snap-dragons, sweet peas, primroses, corn flowers, forget-me-nots and wall-flowers are every-day material now throughout the season in the show windows of most of the city florists.

To the Editor of HORTICULTURE.

Dear Sir: — I would like to read Mr. A. Ogg's management of Gloire de Lorraine Begonia, as I cannot seem to do much with it, and I think there are others in the same boat.

Yours truly,
W. W.

Mr. Ogg will oblige. — ED.

Hardly a fair deal, that of holding the Morris County Gardeners' and Florists' and the Tarrytown Horticultural Societies' annual dinner on the same evening. More conducive to the desired "feast of reason and flow of soul" to mix up. Wednesday evening, January 11th, was the date of the dual event. Thursday evening, 12th inst., was similarly celebrated at Providence by the Rhode Island Club. We know they all had a good time. Full account of all three in next issue.

Decorative Palms

Recently a writer in an American contemporary observed that many very beautiful and distinct palms are not taken up commercially on account of their spiny habit, a very spiny palm being somewhat of a nuisance to the decorator and also to his patrons, as anyone who has handled such a palm as Acanthorhiza stauracantha, with its network of long and branched spines around the stem, can fully testify.

But there will be an awakening in the direction of something more than the ever-present Kentia some time in the future, for as the taste for horticulture grows, and grow it does and will, there will come a demand for greater variety than the market now affords, and it is therefore well to bring these plants that are outside of the ordinary run into notice from time to time. Acanthophœnix, Martinezia, Bactris, Thrinax, Welfia, Geonoma, Pinanga, these and a host of others suggest themselves, either for their graceful habit, singular form, abundant spines, or varied coloring of the young and immature leaves; those of the Welfia, for example, being of a bright reddish chocolate as they first expand, finally changing to dark green. And this is a slender growing, unarmed palm that might well find a place among the available trade species even though it may not be just as hardy as a Rhapis or a Chamærops.

Several of the Geonomas also show some very distinct coloring in the young foliage, and as this is a dwarf race of palms, there is no danger of most of the species of this genus outgrowing the average greenhouse of the amateur plant-grower for some years, besides being of very graceful habit and reasonably rapid growth. There are numerous palms that one cannot safely recommend to those customers having only a small greenhouse in which to keep their palms, for such species would outgrow their quarters before showing their true character, and thus prove a great disappointment to the customer, and among those that readily suggest themselves are some of the Cocoses, Oreodoxas, and Euterpes, to which we may refer in a future issue. — *Journal of Horticulture.*

E. Hippard of Youngstown, O., recently shipped the material for ventilating and partly building a range of ten greenhouses for Alfred Dorner in Germany.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

A coincidence worthy of note is that the greenhouse prizes of the Massachusetts Horticultural Society went to the Plant estate. — *Natick, Mass., Bulletin.*

What flowers are you sending Her to-day — violets or carnations? Perhaps you have been led by a story going the rounds saying pinks will push the purple flowers from favor, and betrayed into sending carnations. If you have been she may and she may not let you know the mistake you have made; it all depends upon the stage of intimacy you have reached. But if you get no hint from her, you may assure yourself just the same that you have erred and next week you must rectify it by sending an extra large bunch of violets. For, as a girl said the other day as she poised a second in front of a florists' window on Boylston Street, "girls admire and respect all flowers, but they love — they adore violets." Or send carnations and orchids and roses as you like, but send violets, too. Don't forget that. And if you would do the very latest thing in flower-giving, you will have a basket made of pussy-willows imported from the South to contain your offering. — *Boston Transcript.*

The violet men seem to have been getting their second wind all over the country. The carnation men should "see" the *Transcript* man.

THE PATH OF PROGRESS

The horseless carriage whizzes by
With puff and dash and slam;
Through every breath of ours may fly
A wireless telegram;
The seedless raisin on the plate
We joyfully devour;
Things are perfected while we wait —
Here comes the fadeless flower.

The coreless apple is announced;
The whipless school is here —
No scholar any more is trounced
By teacher kind and dear;
The scentless onion now is grown —
Improvement every hour
Into the scheme of things is thrown;
Behold the fadeless flower!

The jokeless comedy we see;
The tailless horse we drive;
The honey served to you and me
Comes from a beeless hive;
Buckwheatless buckwheat cakes we eat,
And gather strengthless power;
Some new thing every day we greet —
Observe the fadeless flower.

O, would they freeze some meltless ice,
Or make some footless gas,
Or furnish coal without a price —
Fate is unkind, alas!
Henceforth the maiden fair to see
Will grow reserved and sour,
And say: "Bring withered blooms to me,
No cheap old fadeless flower!!"

— *Chicago Tribune.*

Violet-Growing

A Paper Read at the Last Meeting of the Suffolk Co. Horticultural Association by William Wincott, Babylon, N. Y.

GENTLEMEN:

I have been asked to give you a little talk on the "Cultivation and General Care of the Violet," and to the best of my ability I will gladly give you my experience with this ever-popular flower. According to history there are upwards of 100 distinct species, and they can be found in Europe, Asia, and America. As I have learned they are the oldest favorites in existence, but the ones most under cultivation are: Marie Louise, Lady Hume Campbell, Neapolitan, California, Princess DeGalles, La France, and Princess of Wales. The present extent of their culture is something enormous when we are informed that Greater New York alone receives shipments of this little beauty at the rate of 300,000 to 1,000,000 per day during the flowering season, which is from November 1 to the middle of May, the prices ranging from $1.50 per 100 blooms down to 20 cents per 100 for the poorest ones. I believe that Poughkeepsie, the Highlands and Rhinebeck alone have over 100 establishments that grow from three to twenty thousand plants, which average from fifty to seventy flowers per plant. The finest flowers in the country come from these sections.

The propagation is done either by division of the old plants or by runners. I prefer the latter if they can be obtained, as they are not so old and hard. The time I take my cuttings is about the middle of March or first of April. If runners are not available, I divide the plants, taking them, if possible, with a heel; but I never use the center crown. If runners or divisions, they are ready, when trimmed, to either be put in a cold frame or house and, with a slight shading and kept a little close, should be ready in about three or four weeks to put in the garden, where they can remain till about the middle of August, care being taken to keep all runners trimmed off with a good, sharp knife; but they should never be pulled off, as they are very apt to bleed badly, and that will cause collar rot.

Some growers lift violets with a ball of dirt, but I always shake the dirt off clean, and as I plant them give each one a thorough watering and shade at once. I make a frame five feet long and about three feet eight inches wide, using plaster lath, which I tack to the rafters. This makes an excellent shading and it can be left there until the middle of September or first of October. The laths should be about the width of a lath apart.

When violets are established in new quarters they should be kept a little on the dry side. That helps to ripen the wood and they are not so apt to get diseased. The watering should be done in the afternoon, after 3 o'clock, from May 1 to the middle of August, also the syringing. But after that in the morning, BETWEEN the plants only, on bright days if possible: never in the afternoon, as the whole secret of the disease, in my experience, is that it is caused by the dampness at night through the fall and winter months. I have found that a dusting with Portland cement or fresh slacked lime is a good remedy for the disease, but I think it is easier to prevent than to cure, and if the watering is carefully attended to, you will not have much trouble.

I have failed to find a grower that has not had a little disease, sometime or other, but as soon as it makes its appearance pick it off and let them dry out for a week or two and it won't bother you much. Never wet the foliage in the winter unless you have to, which might happen in a case where there were red spiders; then go for them with a good force of water, either through a hose or syringe.

I find the violet likes a good, rich soil, and I use sod cut from the pasture lot about two months before using. With this I use one good cart load of rotten cow manure to three cart loads of sod and half a bushel of slaked lime; mixed and well broken up, it makes a good compost. In planting a solid bed I take out about four inches of the old soil and fill in with the fresh compost, and then dig the whole bed thoroughly. For a top dressing I use ground bone or sheep manure. For a bench the same compost will be all right, but the watering must be done with greater care, for if they ever get over-watered you may throw them out at once. Keep them well on the dry side and they will do the rest.

For violets to be grown in a cold frame, first select a good southern exposure — say on the south side of a barn or front of a good hedge, — then place your frame so that you can work all around it, and after the bed is ready, put in the plants and shade with lath frames and ventilate from the back by blocking. It is better not to push the sash up or down after the first of October, as I think cold draughts do not help them. I always place a thermometer in the frame and face it to the north, and when it registers 45 degrees I put on a little air to let out the dampness. The proper temperature for a violet house is 45 degrees at night and 60 in the day, but never hotter, if avoidable, as a higher degree causes the flowers to run small and the plants to grow too fast, which will make the flowering season much shorter. Of course a frame cannot be kept at these degrees, but if well covered at night with good salt hay, with shutters or mats over it, they can be grown with good success, and to prove this assertion, will read a little article written in the papers of my own success with a few plants:

"BABYLON, L. I., Jan. 22, 1891
"*The American Florist*,

"Gentlemen: — I have forwarded by mail a small box of violets with foliage, which I hope will reach you in good shape. I have picked thousands this winter just as good as I send you and I have picked quite a number that were as big as a fifty-cent piece, which I thought was remarkable."

Answer: — "The violets arrived in excellent order and were beautiful specimens of the flower, which is such a popular favorite for winter forcing."

For fumigating a house or frame I have found nicotine the safest and most satisfactory. I use one tablespoonful to one and one-half pints of water, at the rate of four pans to a house seventy-five feet by eleven feet. They are evaporated with a small shovel of red-hot coals, starting at the extreme end of house and walking back towards the door, dropping a few lumps into each pan. You can use pieces of iron or sash weights, but care should be taken that they fit in the pans before heating them. For another insecticide I use ivory soap, five-cent cake to five gallons of water. The soap should be thoroughly dissolved by boiling in a little water and the balance added and applied while warm, either with a syringe or a bulb sprayer. If this does not kill the black fly, repeat. I use this insecticide when I cannot shut down house or frame through summer and spring.

The time of planting varies under different conditions. For cold frames or house on small scale, they should be planted about the middle of August If left later in the fields, they might get blighted, the cause of which is the night fogs and hot sun. For a commercial place or on a large scale the cuttings can remain in cold frames or end of house until the first or middle of July, when they should be planted in the positions where they are to remain. I plant my violets 8 by 8 inches; but if plenty of room 9 by 9 is better.

Now, gentlemen, if I have omitted anything you would like to know as to my methods, etc., I will gladly tell you if it is within my power. The only parts of these remarks that I would like to impress upon the minds of those amongst us who would like success with violets are these:

1. Time of planting under different conditions.
2. Note change of time between summer and winter watering.
3. Temperature.
4. Keep plants clean from diseased leaves, weeds, red spiders and black flies, not forgetting to thoroughly cultivate until flowers stop. You also cut off all runners until after middle of November.
5. Last, but not least, don't forget that eternal vigilance should be the motto of every violet grower.

Catalogues Received

Frank Elmer Conine, Stratford, Conn. List of hardy roses, conifers and ornamental deciduous trees and shrubs.

Gustav & J. W. Ludwig, Allegheny, Pa., have issued an illustrated catalogue of floral design work covering a wide range of subjects.

John Lewis Childs, Floral Park, N. Y., issues his thirtieth annual catalogue, full of tempting pictures. The subject of the colored title page is Calla Elliottiana, yellow, and Calla Rhemanni, pink.

Andorra Nurseries, Chestnut Hill, Pa., have issued an elaborate and beautiful series of illustrations of symmetrical specimens of conifers and other ornamental trees and shrubs in their new catalogue for 1905.

William Elliott & Sons' 1905 seed catalogue comes in a cover of beautiful and artistic design and coloring. An old mill and brook in springtime and apple trees all pink with bloom is the subject of the design. Send to 54 Dey Street, New York, for a copy.

Peter Henderson & Co.'s "Everything for the Garden" has a novel proscenium arrangement in the cover, disclosing a glimpse of the sweetness and light within. There are several colored plates of melting vegetables, irresistible roses, giant sweet peas, artistic dahlias, and ever-blooming hollyhocks.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

SITUATION WANTED — By first-class Carnation Grower, willing and able to fill position of responsibility. Address "W. J."
Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — By young man, good experience with all kinds of plants, flowers and hothouse fruits. Good references, private or commercial. Address "A," Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — As first assistant on first-class, private place where orchids, palms and roses are grown. Single, 28. Experience practical and theoretical in general stock. Address, "E. L. R."
Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — By Young Man, age 25, English, good all-round experience in greenhouse work, designs, etc. Good references. State wages. Address "D.," care of HORTICULTURE.
11 Hamilton Place, Boston.

Swainsona Osborni

(Reproduced from Journal of Horticulture.)



One of the best known members of this genus is the old S. galegifolia, which at one time often appeared as an exhibition plant, but is now rarely seen, except in gardens where these old favorites are prized. A charming variety of it is, however, more commonly shown now — viz., S. galegifolia albiflora. The flowers of this form are pure white, and contrast finely with the fresh green foliage. S. Osborni, of which a vigorous shoot and large raceme are shown in the woodcut, is also regarded by some as a variety of the above species, but it is practically quite distinct, and is undoubtedly the finest of all those in cultivation. When thoroughly well grown, this is one of the most handsome plants for the roof of a greenhouse or conservatory that can be had, its long racemes of rich purplish flowers being produced very freely, and if the shoots are not too rigidly secured to the rafters, but allowed a little freedom, the effect is much better. Good turfy loam and peat suit it well as a compost, an occasional supply of very weak liquid manure increasing the vigor of the plant considerably. It requires little care, and is deserving of more popular attention than it receives at present. — *C. in Journal of Horticulture.*

CATCH HIM

Charles E. Simmons, employed by Emslie & Broadfoot of Montpelier, Vt., has left that city and the firm would welcome any information as to his whereabouts. Soon after Alderman Broadfoot purchased an interest in the business a cash register was installed, and Simmons was transferred from the office to the hothouse, but irregularities in regard to the payment of bills continued to come to their notice, and the firm decided recently that it would be best for him to sever his connection with them. They were not prepared, however, for his hasty exit on Saturday last. They allege that his plan has been to collect bills due the firm, exchange receipts and pay his personabills with them. He left the greenhouse on Saturday to deliver plants, and not returning, the firm became anxious and notified the police. Upon investigation it was found that he had taken the train for Boston, after securing a loan of $250 on his household goods.

There is only one kind of advertising that is wise. It's the kind that makes business. Cut out the rest.

BOUNCING THE RUBBER

Mr. Crimsonbeak — Is that a rubber plant you've got there in the window?

Mrs. Crimsonbeak — Yes, dear.

"Well, don't you think it about time we bounced it. — *Yonkers Statesman.*

Plant your advertisements here. It is good ground and will yield famously.



The Best Seeds Pay Best

Asparagus Plumosus Nanus

75 cents per 100 seeds; $6.00 per 1000

Fresh seed, greenhouse-grown; none of last year's seeds mixed in.

Carnation Bands in box

PRICES:—1000 for 15c., 2000 for 25c., 4500 for 50c., 7000 for 75c., 10,000 for $1.00. Send for our advance seed list now ready.

Henry F. Michell Co.

1018 Market St., Philadelphia

JOHNSON & STOKES' **TESTED FLOWER SEEDS** *For Early Sowing*

Strictly New Crop Seed from the Most Reliable Sources

	Trade pkt.	Per oz.
Asparagus Plumosus Nanus (Greenhouse Grown Seed). Per 100 seeds, 75c.; 1,000 seeds, $5.00; 5,000 seeds, $23.00.		
Alyssum Little Gem or White Carpet.	$0.10	$0.25
Candytuft Empress, pure white	.10	.15
Candytuft, Giant Hyacinth Flowered, White	.10	.20
CLEMATIS PANICULATA, (our own growing) fine! Special quotation will be made in quantity	.10	.40
Carnation Marguerite, choice mixed	.20	.75
Lobelia Crystal Palace Compacta True	.25	1.25
Petunia J. & S. choice Double Fringed, mixed, per 500 seeds, 75c.; 1000 seeds, $1.50		
Petunia, J. & S. Giant Single Frin. mix.	.50	
Petunia, Dwarf Inimitable (nana compacta), fine for pots	.25	1.25
Pansy, J. & S. Kingly Collection unsurpassed for size, substance, markings and rich colors, 1000 seeds, 30c.; 2,000 seeds, 50c.; 5,000 seeds, $1.00.		5.00
Stock, Princess Alice (Cut and Come Again)	.30	2.50
Verbena Mammoth, mixed, the most brilliant colors and distinct markings found in any strain extant, Per 1,000 seeds	.20	1.00



Salvia Splenders. "Bonfire"
Trade pkt., 30c.; oz. $2.00
Grown at our Floracraft Trial Grounds

Verbena Mammoth, white, pink, scarlet and purple, each. Per 1,000 seeds $0.25 $1.25

Our Wholesale List for Florists' mailed on request.

JOHNSON & STOKES, 217-219 Market St., PHILADELPHIA

New Bulb House



At Meadowvale Farm, Berlin, N. Y., Arthur Cowee, proprietor. Capacity 18,000 bushels.

Robert Cummings, gardener to Mrs. W. F. Cochren, Yonkers, N. Y., has a fine variegated Lawson sport now in its third year. Also a white sport from Mrs. Bradt.

The greenhouses of A. L. Thorne, Flushing, N. Y., were entered and a quantity of carnations and an overcoat stolen on Thursday night, January 5. The thief was caught later wearing the coat.

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE

MEADOWVALE FARM, BERLIN, N. Y.

Quality Seed Bulb Plant S

SEND FOR CATALOGUE

Arthur T. Boddington

342 West 14th Street *NEW YORK*

THOS. J. GREY & CO.

AGRICULTURAL IMPLEMENTS

..SEEDS..

Farm, Garden and Lawn Supplies

We carry in stock Duplicate Parts Leading Machines

32 So. MARKET ST., BOSTON

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.

Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets from seedsmen throughout the United States. **Full particulars from**

Sander & Sons St. Albans, ENGLAND

Wholesale Agents for the United States

HY. A. DREER, Philadelphia, Pa.

J. M. THORBURN & CO., Cortlandt St. N.Y.

VAUGHAN'S SEED STORE, Chicago and N.Y.

W. W. RAWSON & Co. Arlington Tested SEEDS BOSTON MASS.

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SEEDS For the Florist.

Catalogues Mailed Free.

W. W. RAWSON & CO., Seedsmen

12 and 13 Faneuil Hall Square BOSTON

BULBS

HORSESHOE BRAND

and PLANTS

Ralph M. Ward & Co.

17 Battery Pl. New York

SPECIAL OFFER

A FEW THOUSAND FIRST SIZE

Double Von Sions

At $9.00 per thousand while they last.

Best English Cyclamen Seeds

In named varieties, 50c. pkt. $1.25 per 100 seeds.

Boston White Globe Stock

Best for inside growing. Pkt., 10c.; large pkt., 50c.; ounce, $5.00.

SCHLEGEL & FOTTLER CO.

26 & 27 So. Market St., Boston, Mass.

PHYLLIS

Best of all commercial Light Pink Carnations

Popular, Free, Profitable

Per 100, $12.00; per 1000, $100.00

Also all the best introductions of the season in

CHRYSANTHEMUMS

SEND FOR CATALOGUE

JOHN N. MAY

SUMMIT, N. J.

The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

. . . PRICES . . .

Own root	$ 25	per 100	Grafted	$ 30	per 100
"	55	" 250	"	70	" 250
"	100	" 500	"	130	" 500
"	200	" 1000	"	260	" 1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

JOHN N. MAY, SUMMIT, N. J.

Special Cheap Offer of Florists' Orchids

We want room for large importations

CYPRIPEDIUM INSIGNE; 5000 established unflowered growths, $8 per 100; $75 per 1000.

CYPRIPEDIUM CALLOSUM: 1000 established unflowered growths, $20 per 100.

CYPRIPEDIUM LAURENCEANUM: 1500 established unflowered growths, $25 per 100.

DENDROBIUM FORMOSUM GIGANTEUM: The florist's white orchid. Established plants, 8 to 10 bulbs, $9 per 12; $20 per 100.

VANDA CŒRULEA, The florist's blue orchid. A rare opportunity. Established plants. 10 to 12 leaves, $15 per 12; 12 to 15 leaves, $22 per 12. All clean, healthy, perfect plants.

For other quotations, see our catalogue; to be had from

Julius Roehrs' Exotic Nurseries, Rutherford, N.J.

Carnation Cuttings

STRONG AND WELL ROOTED

	Per 100	Per 1000
Queen	$2.50	$20.00
Queen Louise	2.00	15.00
Boston Market		
Enchantress	3.00	25.00
Harlowarden	2.50	20.00
Prosperity	2.00	15.00
Lawson		
Fair Maid		

ENGLISH SELECTED MANETTI STOCK

5 to 8 m/m $12 per 1000

S. J. REUTER, WESTERLY, R.I.

Rooted Cuttings **CARNATIONS** Clean and Healthy

Mrs. M. A. Patten	$6	per 100
Nelson Fisher	7	" "
Enchantress	3	" "
Walcott, Boston Market	2	" "
J. H. Manley, Maceo	2	" "

Sidney Littlefield, *North Abington, Mass.*

SURPLUS STOCK

Mignonette. Allen's Defiance

2½-in. pots, 2 cents each

Parlor Ivy

Good vines. 3-in. pots, 2 cents each

Variegated Wandering Jew

Good vines. 5 cents

J. A. KEENEY, MONONGAHELA, PA.

SHEEP MANURE

PULVERIZED

Free from all Adulteration

IN BAGS, $18.00 per TON

Special price on car load lots in bulk.

ROBERT SIMPSON - Clifton, N. J.

Easy: ——

TO MAKE MONEY on Geraniums like these. S. A. Nutt, from 3-inch pots August-struck cuttings; each plant will produce from 1 to 3 cuttings before time for planting out. $3.00 per 100. Cash, please.

H. M. TOTMAN, RANDOLPH, VT.

Japan Bamboo Stakes

IN LARGE QUANTITIES WRITE FOR PRICES

SUZUKI & IIDA, 31 BARCLAY ST NEW YORK

It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

Chrysanthemum

Stock Plants

NOW READY

Wm. H. Duckham, Dr. Enguehard, 25c. each, $2.50 per doz.

WHITE Miss Alice Byron, Mrs. McArthur, W. H. Chadwick.

PINK A. J. Balfour, Ethelyn, Maud Dean, Mlle. Marie Liger.

YELLOW Yellow Eaton, Mrs. G. F. Baer, H. W. Buckbee.

15c. each, $1.50 per dozen, $10.00 per 100. 50 plants sold at 100 rate

WHITE Geo. S. Kalb, Polly Rose, Willowbrook, Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Mrs. Jerome Jones, Timothy Eaton.

PINK Glory of the Pacific, Pink Ivory, J. K Shaw, Adela, Mrs. Perrin, The Harriott.

YELLOW Monrovia, Miss Georgiana Pitcher, Col. D. Appleton, Golden Gate, Major Bonnaffon, Mrs. Trenor L. Park, H. W. Reiman.

RED Cullingfordii. **BRONZE** Kate Broomhead.

10c. each, $1.00 per dozen, $7.50 per 100

We shall have young stock to offer from these and others later in the season.

Grafted Roses, Choice Stock, Ready for Delivering Early in 1905

Carnation Stock, Leading Varieties

SEND FOR PRICE LIST

A. N. PIERSON

Cromwell, Connecticut

PALMS, FERNS And Decorative Plants

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter.

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc. : : : : : : : : : : : : : :

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & COMPANY

Importers and Exporters

Growers and Dealers

PERKINS STREET NURSERIES

Roslindale - Boston, Mass.

ROOTED CUTTINGS

Parlor Ivy, Heliotrope, Ageratum, Achyranthes, Tradescantia, 50c. per 100.

2½-inch pot plants Allen's Defiance Migno. 2 cents

J. A. KEENEY, Monongahela, Pa.

NEWS OF THE CLUBS AND SOCIETIES

The Tennessee Horticultural Society was organized January 2, at Nashville. Charles R. Keffer, professor of horticulture at the University of Tennessee, was elected president, and Prof. George W. Martin, state entomologist, secretary-treasurer.

The new schedule of premiums offered by the Worcester County (Mass.) Horticultural Society for 1905, appropriates $1,000 for flower and plant prizes, $850 for fruits, and $650 for vegetables. The first exhibition of the society will be on Wednesday, March 1st. The judges for 1905 are George McWilliam, Henry E. Rich and Charles Greenwood.

At the regular meeting of the New Haven County (Conn.) Horticultural Society, the following officers were elected: — Pres., Robert Pryde; Vice-Pres., John Murray; Sec., Thomas Pettit; Board of Managers, Robert Patten Richard Bell, Frank Duffey, W. Simons and Charles Keane. A very interesting paper was read by Charles Keane on general horticultural topics.

At the last meeting of the Pittsburg and Allegheny Florists' and Gardeners' Club the following officers were nominated for the ensuing year. As William Falconer, who has been president of this club for the past four years, had declined to allow his name to be used again, T. P. Langhans, Secretary of the Pittsburg Cut Flower Co., was nominated as president, together with the officers of the previous year, namely, E. C. Reineman, vice-president; H. P. Joslin, secretary; E. C. Ludwig, assistant secretary; Fredrick Burki, treasurer; P. S. Randolph, John Bader, and Fredrick Burki, executive committee.

The secretary's report showed the club to be in a prosperous condition, with 147 members and a good cash balance in the treasury. The topic for the next meeting, February 7th, will be "Carnations."

NASSAU COUNTY HORTICULTURAL SOCIETY

The Nassau County Horticultural Society held the second of its regular monthly meetings on Wednesday, January 4, on the premises of Felix Mense, florist, Glen Cove, who, through his generosity, has granted this as a place of meeting till a permanent one be decided upon.

Notwithstanding the inclemency of the weather at that time, there was a good attendance of members which would seem thus to augur well for a successful career to this newly organized society.

President Harrison occupied the chair. The chief business at the meeting was the adoption of by-laws for the society submitted by the executive committee. Some lively discussions followed.

J. F. JOHNSTON.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Department of Plant Registration

Conard & Jones Co., West Grove, Pa., submit for registration pillar rose Garden's Glory (Pink Mme. Plantier) a seedling from Dawson crossed with Clotilde Soupert. Flowers large, double, rose pink, fragrant, in large clusters. Plant, strong grower, hardy, almost thornless. Resembles Mme. Plantier in habit and abundance of bloom.

Patten & Co., Tewksbury, Mass., submit for registration the following carnations: Mikado, a variegated seedling of 1902 (Gov. Roosevelt × Prosperity); style of growth similar to Gov. Roosevelt; color, white overlaid with crimson; size of blooms, 3 to 3½ inches.

Pink Patten, a sport from Mrs. M. A. Patten; color, clear, dark pink.

WM. J. STEWART, *Secretary.*

CLUBS AND SOCIETIES

Massachusetts Horticultural Society

The annual meeting of the Massachusetts Society was held at Horticultural Hall, Boston, on Saturday, January 7. President A. F. Estabrook having been obliged to go to Porto Rico on account of poor health, Vice-president Walter Hunnewell officiated as presiding officer. Reports of trustees and other officials was the principal business transacted.

Treasurer C. E. Richardson gave the total assets of the society as $831,298.66, and the liabilities (of a fiduciary character) $49,768.63, leaving a balance of $781,530.03. There had been paid out during the year $21,995.60, and received, $18,853.37. The present membership is 847.

John Farquhar, chairman of the Committee of Arrangements, urged that more attention be given to the matter of prizes for fine shrubbery and plants.

The report of the committee on gardens, by Charles W. Parker, chairman, was read by Secretary Rich. It alluded to the gypsy and brown-tail moths, and to meetings which had been held to consider ways and means to fight the pests. Prof. A. H. Kirkland was praised for his efforts.

An interesting feature of the report of the Garden Committee, was a description of the mushroom cellar of H. A. Stevens at Islington. It occupies the entire space of a barn cellar, about 40 x 60 feet, with close-laid stone and brick walls. A dish of splendid mushrooms was shown by Mr. Stevens.

AMERICAN CARNATION SOCIETY

Carnations Registered

By W. L. Lewis, Marlboro, Mass.

"Mrs. W. L. Lewis." — Color, pure snow white, flower well built on a long stiff stem, and will produce more flowers per square foot than any other white in existence to-day. The flowers measure three inches, are good keepers and shippers and a burst calyx is something that has never been seen to exist since its origin.

By Baur & Smith, Indianapolis, Ind.

"Beatrice." — In registering this variety last week the color was described as lighter than Daybreak; it should have read "brighter than Daybreak."

The premium lists for the Chicago meeting, January 25th and 26th, of The American Carnation Society have been sent out this week to every member of the Society. If yours has not reached you, it has miscarried and you should notify the Secretary at once. If you are not a member and want one, they can be had on application.

Messrs. H. Weber & Sons of Oakland, Md., desire to have it announced that the premiums they offer in the Premium List of the Carnation Society for the vase each of Norway, Gov. Lowndes and G. Lord scoring the highest number of points, will be awarded to a vase in any of the classes calling for fifty or more blooms, and need not be made a separate entry. — ALBERT M. HERR, Sec'y, Lancaster, Pa.

The following premiums are offered for competition at the 14th annual meeting to be held in Chicago, Ill., on Wednesday and Thursday, January 25th and 26th, 1905.

CLASS A. Open to all varieties, Seedlings or Standard Sorts.

No.		First Prize.	Second Prize.
1	Best vase 100 blooms White	$10.00	$6.00
2	Best vase 100 blooms Daybreak shade of Pink	10.00	6.00
3	Best vase 100 blooms Lawson shade of Pink	10.00	6.00
4	Best vase 100 blooms Scott shade of Pink	10.00	6.00
5	Best vase 100 blooms Scarlet	10.00	6.00
6	Best vase 100 blooms Crimson	10.00	6.00
7	Best vase 100 blooms Yellow Variegated	10.00	6.00
8	Best vases 100 blooms White Variegated	10.00	6.00
9	Best vases 100 blooms. Any other color	10.00	6.00

CLASS B. Open to all varieties disseminated prior to July 1st, 1903.

1	Best vase 50 blooms White	5.00	3.00

No.		First Prize.	Second Prize.
2	Best vase 50 blooms Daybreak shade of Pink	$5.00	$3.00
3	Best vase 50 blooms Lawson shade of Pink	5.00	3.00
4	Best vase 50 blooms Scott shade of Pink	5.00	3.00
5	Best vase 50 blooms Scarlet	5.00	3.00
6	Best vase 50 blooms Crimson	5.00	3.00
7	Best vase 50 blooms Yellow Variegated	5.00	3.00
8	Best vase 50 blooms White Variegated	5.00	3.00
9	Best vase 50 blooms. Any other color	5.00	3.00

CLASS C. Open to all varieties disseminated prior to July 1st, 1902.

No.		First Prize.	Second Prize.
1	Best vase 25 blooms White	$3.00	$1.50
2	Best vase 25 blooms Daybreak shade of Pink	3.00	1.50
3	Best vase 25 blooms Lawson shade of Pink	3.00	1.50
4	Best vase 25 blooms Scott shade of Pink	3.00	1.50
5	Best vase 25 blooms Scarlet	3.00	1.50
6	Best vase 25 blooms Crimson	3.00	1.50
7	Best vase 25 blooms Yellow Variegated	3.00	1.50
8	Best vase 25 blooms White Variegated	3.00	1.50
9	Best vase 25 blooms. Any other color	3.00	1.50

CLASS D. Wm. Scott prize, 50 blooms Scarlet, no more nor less.

All varieties admissible that have not been disseminated prior to November 4, 1904.

Vases competing for this prize are not allowed to compete in other classes, excepting for Certificate of Merit.

First prize, $15.00 cash; Second prize, $10.00 cash.

CLASS E. E. G. Gillett prize, best vase of 50 blooms in the hall; said vase can be exhibited in any of the other classes. One prize, $5.00 in cash.

CLASS F. E. G. Hill Co. prizes, best 100 blooms of Adonis, $10.00 cash. Best 50 blooms of Adonis, $5.00 cash.

These vases can be exhibited in Classes A and B.

CLASS G. H. Weber Sons' prizes, vase of Gov. Lowndes scoring the highest number of points, $10.00 cash.

Vase of Genevieve Lord scoring the highest number of points, $10.00 cash.

Vase of Norway scoring the highest number of points, $10.00 cash.

CLASS H. James Hartshorne prize, best vase of 50 blooms Crusader, $10.00 cash. Same vase may be exhibited in other classes.

The Lawson Medal.

CLASS I. A Gold Medal will be given for the best vase of 100 blooms, any variety, any color.

A Silver Medal will be given for the second best vase of 100 blooms, any variety, any color.

A Bronze Medal will be given for the third best vase of 100 blooms, any variety, any color.

Special Medals of the Society of American Florists.

Class J. A Silver Medal will be awarded for the best vase of 50 blooms of Carnations not yet disseminated.

A Bronze Medal will be given for the second best vase of 50 blooms of Carnations not yet disseminated.

The variety to be in all cases of American origin.

Judges are to reserve awards in this class if in their opinion the exhibits are not worthy of the medals.

SWEEPSTAKE. $15.00 in cash to best vase in Class A.

$10.00 in cash to best vase in Class B.

CLASS K. Silver Cup to value of $25.00 offered by Vaughan's Seed Store, Chicago, Ill., for the best 50 blooms of an undisseminated variegated Carnation — any color.

CLASS L. $5.00 in cash offered by A. Dietsch & Co., Chicago, Ill., for the best undisseminated seedling Carnation from the State of Illinois, not less than 12 blooms to a vase.

CLASS M. $10.00 cash offered by Baur & Smith, Indianapolis, Ind., for the best 50 blooms of Carnation Indianapolis — this vase not to be in Class B.

CLASS N. John C. Moninger Co., Chicago, Ill., offers as follows:

50 Crimson — First prize, $5.00; second prize, $3.00.

50 Yellow — First prize, $5.00; second prize, $3.00.

These vases not to be exhibited in Class B.

CLASS O. Silver Cup to value of $25.00 offered by the Foley Manufacturing Company, Chicago, Ill., for the best vase of 100 blooms, arranged for effect; foliage of any kind allowed, but no flowers excepting Carnations. Open only to retail florists.

RULES GOVERNING THE AWARD OF CERTIFICATES OF MERIT

A variety must have been bloomed not less than three years; not less than fifty blooms must be shown, and an entrance fee of $5.00 is charged for each variety. The variety must be properly labeled with the Society's card.

PRELIMINARY CERTIFICATE

This can be competed for by two-year-old seedlings, twelve blooms or more to be shown, and an entrance fee of $2.00 paid for each variety.

News Notes

Jacob Rohr & Son, Naperville, Ill., lost the contents of three houses on the night of December 27, by frost due to their steam boiler giving out.

A slight fire occurred in one of the greenhouses at Evergreen Lodge, Clarksville, Tenn., on the morning of December 28. The principal damage to the contents was by smoke.

Fire started by the explosion of a lantern, burned the barn of the Riverside Greenhouse Company at Gardner, Mass., on January 2, and destroyed a quantity of farming and greenhouse tools, the whole loss amounting to about $3,000, on which there was partial insurance.

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get your results beyond expectation.

Notes on Market Varieties of Chrysanthemums

It was a happy thought on the part of the National Chrysanthemum Society when it decided to hold an exhibition of market blooms in the vicinity of Covent Garden, and the organizers must have felt gratified at the display made, for although the huge mops were missing, the varieties displayed gave one an idea of the best decorative sorts for Christmas work. Most of the classes were well filled, and quality first-rate throughout. Few plants were staged, but they were a credit to Mr. Milton Hutchings, most being in 6-in. pots and carrying from six to eighteen blooms each, with the foliage down to the pot. The chief varieties were W. H. Lincoln, A. J. Balfour, and Guy Hamilton. The best novelties were Golden Standard, already described in these pages, and Hilda Tully, a crimson sport from Mrs. Herman Kloss. This will make a fine variety, but it is not yet in commerce. The general run of varieties in each stand were very much the same throughout the show. Allman's Yellow was well staged by the raisers, though not seen much elsewhere. Mrs. Herman Kloss was the chief bronze variety, while in *whites* were Mdlle. Thérèse Panckoucke, Madame R. Cadbury, Princess Victoria, Letrier, Souvenir d'une Petite Amie, Madame Philipe Rivoire, and Mrs. J. Thompson. In *yellows* the best were W. H. Lincoln, W. H. Reiman, King of Plumes, Yellow Princess Victoria (some strains of this variety are much better than others, being richer in coloring), Negoya, Mabel Morgan, and Mrs. Greenfield. The *pinks* were not so numerous; they included Framfield Pink, A. J. Balfour, Madame Louise Charvet, Pink Princess Victoria, and Mrs. Barkley. In the *bronzes*, Mrs. A. Tate, Mrs. Herman Kloss, Tuxedo, and Lord Brooke were best. The *crimsons* were really beautiful for the late season, most of them old varieties, such as Cullingfordi, Putney George, Red Canning, Mrs. S. J. Cooper, and the newer variety Violet Lady Beaumont were observed. Other good varieties in different colors were Matthew Hodgson, Mafeking Hero, Papa Veillard, and Madame E. Roger. The classes for packing were well patronized, and in the majority of cases could hardly be surpassed. — *J. B. R. in Journal of Horticulture.*

Street traffic was blocked, and wild excitement prevailed for several minutes on Broadway, New York, opposite Warendorff's flower store, on the afternoon of January 3, all resulting from the explosion of a little bottle of metal polish which a peddler was endeavoring to sell to Mr. Warendorff. No serious damage resulted.

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ANGLE LAMP.

Globe Gas Light Co., 77-79 Union St., Boston.
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ARECA SEEDS.

J. M. Thorburn & Co., New York.
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ASPARAGUS PLUMOSUS SEEDS.

H. F. Michell Co.,
1018 Market St., Philadelphia.
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ASTER SEED.

Benthey's White. Benthey's Pink. Trade pkgs., $1; ¼ oz. $4.50; ½ oz., $2.50; oz., $8. Benthey-Coatsworth Co., 35 Randolph St., Chicago.
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BAMBOO STAKES.

Suzuki & Iida,
31 Barclay St., New York.
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BEGONIA REX.

Nathan Smith & Son, Adrian, Mich.
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BOOKS, HORTICULTURAL.

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BULBS AND TUBERS.

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Arthur T. Boddington, 342 W. 14 St., New York.
Tuberoses, Cannas, etc.
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BULB FLOWERS.

W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all Bulb Flowers at Market Rates, all season through.

Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston
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J. M. Thorburn & Co.,
36 Cortland St., New York.
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CANNAS.

Nathan Smith & Son, Adrian, Mich.
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CARNATIONS.

Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
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Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
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Robert C. Pye, Nyack, N. Y.
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Red Lawson, $10 per 100; $75 per 1000. W. J. Palmer & Son, Lancaster, N. Y.
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CARNATION BANDS.

H. F. Michell Co., 1018 Market St., Philadelphia.
Carnation Bands, 10,000 for $1.
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1018 Market St., Philadelphia, Pa.
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CHRYSANTHEMUMS.

Nathan Smith & Son, Adrian, Mich.
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Robert C. Pye, Nyack, N. Y.
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A. N. Pierson, Cromwell, Conn.
Stock plants of all the best varieties.
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ENGRAVERS.

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H. Bayersdorfer & Co., Philadelphia, Pa.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Sigmund Geller, 110 W. 28th St., New York.
Novelties in all Lines of Florists' Requisites.
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J. Stern & Co., 1628 Germantown Ave., Philadelphia
Wax Flowers, Wheat Sheaves and general supplies.

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Boston Florist Letter Co., 84 Hawley St., Boston.
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Koral Mfg. Co., 26 Hawley St., Boston.
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G. A. Sutherland Co., 34 Hawley St., Boston.
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Dards, 44th St. & Madison Ave., New York.
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Geo. M. Stumpp, 5th Ave, cor. 58th St., New York.
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Thos. Young, Jr., 43 W. 28th St., New York.
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FOLDING BOXES.

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Wm. J. Boas & Co., Philadelphia, Pa.
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Leo Niessen, 1217 Arch St., Philadelphia, Pa.
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GERANIUMS.

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Nathan Smith & Son, Adrian, Mich.
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GLASS.

Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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Sharp, Partridge & Co., 22d and Union Place, Chicago.
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GLADIOLI.

Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.
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GLAZING POINT.

H. A. Dreer,
Philadelphia, Pa.
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GRAPE VINES, HOTHOUSE.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Strong Planting Canes, all best sorts, each $3.50.
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GREENHOUSE BUILDERS.

Lord & Burnham Co., Irvington-on-Hndson, N. Y.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
See outside cover page.

Hitchings & Co., 233 Mercer St., New York, N. Y.
See outside cover page.

GREEN GOODS.

H. J. Smith, Hinsdale, Mass.
Ferns, Laurel, Moss.

L. B. Brague, Hinsdale, Mass.
Ferns, Moss, Baled Spruce, Laurel.

E. H. Hitchcock,
Glenwood, Mich.
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E. A. Beaven,
Evergreen, Ala.
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GREENHOUSE BUILDING MATERIAL.

Foley Mfg. Co., W. 22d St., Chicago.
Hot Bed Sash and Greenhouse Building Material. Send for Catalogue.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., Boston.
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HARDY HERBACEOUS PLANTS.

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HEATING APPARATUS.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
See outside cover page.

Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

Kroeschell Bros. Co., 47 Erie St., Chicago.
Manufacturers of the Kroeschell Boiler, the Great Fuel Saver.
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IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs.
For page see List of Advertisers.

INSECTICIDES

E. H. Hunt, 76–78 Wabash Ave., Chicago.
To-Bak-Ine, the Great Bug Killer.

JAPANESE PLANTS.

Hinode Florist Co., 5th St., Woodside, N. Y.
For page see List of Advertisers.

JARDINIERES, ETC.

Jones, McDuffee & Stratton, 120 Franklin St., Boston.
Pedestals, Vases and Jardinieres.

LILAC FLOWERS.

S. S. Pennock
The Wholesale Florist of Philadelphia.
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LILIES.

Plants and Cut Blooms. Hinode Florist Co., 5th St. Woodside, N. Y.
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LILY BULBS.

J. M. Thorburn & Co., New York.
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LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
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Clucas & Boddington Co., 812 Greenwich St., New York.
First Class Pips all the year round, our specialty.
For page see List of Advertisers.

Johnson & Stokes, 217–219 Market St., Philadelphia.
High Grade Pips the year round.
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Wm. Hagemann & Co., 55 Dey St., New York.
German Lily of the Valley.

MANETTI STOCKS.

S. J. Reuter,
Westerly, R. I.
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NICOTIANA SANDERÆ.

Sander & Sons, St. Albans, Eng.
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NEPHROLEPIS PIERSONII ELEGANTISSIMA

2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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NURSERY BOOK.

Cottage Gardens Co., Inc.
Queens, N. Y.
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NURSERY MANUAL.

Peterson Nursery, Lincoln & Peterson Aves., Chicago.
Beautiful Illustrated Manual Free on Application.
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ORCHID FLOWERS.

Chas. W. McKellar, Chicago.
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S. S. Pennock,
The Wholesale Florist of Philadelphia
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Julius Roehrs,
Rutherford, N. J.
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PALMS.

Bennett, Rockville Centre, N. Y.
Kentias.
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PATENTS.

E. G. Siggers, Washington, D. C.
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PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
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Thos. Roland, Nahant, Mass.
Well-grown Plants.

A. Schultheis, College Point, N. Y.
Plants, Foliage and Flowering. A Splendid Stock. Send for Price-list.

Julius Roehrs, Rutherford, N. J.
Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.
For page see List of Advertisers.

George Wittbold Co., 1657–1659 Buckingham Place, Chicago.
Palms, Bays, Box-Trees, Ferns.

Robert Craig & Son, Market and 49th St., Philadelphia.
Decorative Foliage and Flowering Plants.

PLANTS HARDY.

Dingee & Conard Co., West Grove, Pa.
Roses, Shrubs, Roots and Decorative Plants.

POTATO, NOROTON BEAUTY.

J. M. Thorburn & Co., New York.
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POT HANGER.

W. C. Krick, 1164–66 Greene Ave., Brooklyn, N. Y.
"Perfect" Pot Hanger.

RETAIL FLORISTS.

Alex. McConnell, New York.
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George M. Stumpp, New York.
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Dards, New York.
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Thomas Young, Jr., New York.
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Central Floral Co.,
Chicago, Ill.
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ROSES.

Kaiserin Roses. Robert C. Pye, Nyack, N. Y.
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W. H. Salter, Rochester, N. Y.
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Rose Richmond, per 100, $30; per 1000, $250. E. G. Hill Co., Richmond, Ind.
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M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
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John G. Gardner, Villa Nova, Pa.
Roses, Multiflora Japonica, Rugosa and Farquhar.

Edward Campbell, Ardmore, Pa.
Crimson Ramblers. Send for prices.

John Breitmeyer's Sons, Detroit, Mich.
Rose La Detroit. Booking orders for early delivery. Send for prices.

New Rose Wellesley. — John N. May,
Summit, N. J.
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ROSES GRAFTED.

A. N. Pierson,
Cromwell, Conn.
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ROOTED CUTTINGS.

J. A. Keeney,
Monongahela, Pa.
Bedding Plants and Mignonette.
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SCOTT FERN.

John Scott,
Keap St. Greenhouses,
Brooklyn, N. Y.
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SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
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Thos. J. Grey & Co., 32 S. Market St., Boston.
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George C. Watson, Juniper & Locust Sts., Philadelphia, Pa. Forcing Tomatoes. Forcing Lettuces. Forcing Radishes.
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Arthur T. Boddington, 342 W. 14th St., New York.
Gloxinias, Tuberous Begonias, etc.
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Tappan, Tappan St., Manchester, Mass.
Choice Verbena and Stock Seed.

W. W. Barnard & Co.,
161–163 E. Kinzie St., Chicago.

Wm. Elliott & Sons, 54–56 Dey St., New York.
Seeds, Roots, Bulbs and Sundries.

H. F. Michell Co., 1018 Market St., Philadelphia.
Seeds, Bulbs, Roots, Implements and Sundries.
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Johnson & Stokes,
217–19 Market St., Philadelphia.
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W. Atlee Burpee & Co.,
Philadelphia.
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A. B. Howard & Son,
Belchertown, Mass.
Verbena Seeds.
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Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston.
Cyclamen and White Globe Stock.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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E. H. Hunt,
76 & 78 Wabash Ave., Chicago.
Carlson Improved Asters.
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Johnson & Stokes,
217–219 Market St., Philadelphia.
Clematis paniculata, Petunia, Pansy, Verbena, Stock, etc.
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SHEEP MANURE.

Robert Simpson, Clifton, N. J.
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STEAM TRAP.

E. Hippard,
Youngstown, O.
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SOUTHERN SMILAX.

E. H. Hitchcock,
Glenwood, Mich.
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E. A. Beaven,
Evergreen, Ala.
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SULPHUR BLOWER.

McMoran & Co., Chicago.
Peerless Sulphur Blower.
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Alex. Guttman, New York.
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VENTILATING APPARATUS.

Hitchings & Co., 233 Mercer St., New York.
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Pierson-Sefton Co., West Side Av., Jersey City, N. J.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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WHOLESALE FLORISTS.

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J. A. Budlong, Chicago.
Chas. W. McKellar, Chicago.
Wieland & Risch, Chicago.
Chas. Millang, New York.
Welch Bros., Boston.
Frank Millang, Flower Growers' Market, 55–57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Geo. Saltford, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
John I. Raynor, New York.
W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York.
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
Leo Niessen Co., 1217 Arch St., Philadelphia.
J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S. Pennock, The Wholesale Florist of Philadelphia.
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Dumont & Co., 1305 Filbert St., Philadelphia.
Choice Cut Flowers.

Fred Ehret, 1403 Fairmount Ave., Philadelphia.
Established 1890.

Sinner Bros., 58–60 Wabash Ave., Chicago.
Fresh Flowers. At the Growers' Market.

Wietor Bros., 51 Wabash Ave., Chicago.
Wholesale Flower Growers.

WIRE.

H. F. Littlefield, Worcester, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co.

HAVE BEEN AWARDED

Two Grand Prizes

AT THE

St. Louis Exposition!

We have been officially notified that we have been awarded the

Grand Prize

(*The highest possible honor*)

For the Collection of **VEGETABLES** Grown from our Seeds

AND ANOTHER

Grand Prize For our Collection of Seeds

Our **SPECIAL PRICE-LIST FOR FLORISTS** is now ready, and will be mailed on application. It contains the finest selected stocks of Flower Seeds for florists, such as Asparagus plumosus nanus, Cinerarias, Calceolarias, Cobæa scandens, Cyclamen giganteum, Double Daisy, Myosotis alpestris, Lobelia, Nasturtium, Pansy, Primula Chinensis, Primula stellata, Salvia splendens, Stocks, Sweet Peas, also

NICOTIANA SANDERAE

In original packets, $1.75 per dozen: $11 per 100

BULBS FOR SPRING PLANTING

Tuberous Begonias, Amaryllis, New Large-flowered Japan Iris, Lilium auratum and Melpomene, etc.

We are offering this year the

GREAT NEW POTATO, NOROTON BEAUTY

The most valuable ever introduced. Full description and the opinions of eminent authorities who have tested it are given in our catalogue.

J. M. THORBURN & CO.

Seed Growers and Merchants

36 Cortlandt St. NEW YORK

Over 100 years in the business

In writing to advertisers, kindly mention HORTICULTURE

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

All of the fancy large podded varieties of peas are in short supply.

The seed bean crop of 1904 promises to be one of the shortest on record.

Although late varieties of sugar corn, excepting Country Gentleman, are said to be abundant, some early sorts are in rather short supply.

George A. Burnett, thirteen years in the employ of Weeber & Don, New York, has opened a seed store at 1951 Boulevard, Jersey City, N. J.

George A. Bennett, for thirteen years with Weeber & Don, has severed his connection with that firm, and will now paddle his own canoe. There is an opening there for a young man with a good practical knowledge of the business and the necessary ability and push.

Many market gardeners in all parts of the East are said to have saved their own seed beans the past summer. This is due mainly to the fact that green beans at times did not bring cost of picking and were allowed to ripen. This will help out the short crop of seed beans.

The Long Island Seed Co. of Mattituck, L. I., have completed their new warehouse at that place. It is a fine structure and admirably designed for their business. W. C. Langbridge, representing Jerome B. Rice Seed Co., was snowbound there from Tuesday until Thursday afternoon.

A SEEDSMAN BANQUETED

This is the season of the year when the seedsmen come around and claim our attention, and of late years their visits have been looked forward to with much less of alarm and concern than formerly.

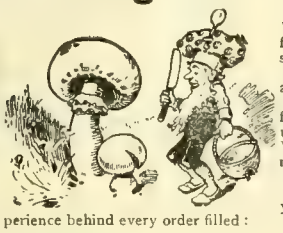
Mr. John Beaton, representing R. & J. Farquhar of Boston, was in Newport last week, and in connection with Mr. Beaton's visit we may say that on one particular evening he would have given all he possessed to be anywhere else but in Newport; not that at any time there existed a likelihood of anything ill happening to Mr. Beaton. On the contrary, the star of John's popularity which was always on the ascendancy, as viewed by the gardeners of Newport was extremely so since a delegation from here visited Boston on the occasion of the recent chrysanthemum ex-

hibition. He looked after the boys then all right. For this, and by reason of John's aptitude for making friends everywhere, he was given the reception which to him was most surprising in that it was really a surprise. And it overcame him — made him wonder what he had done and wish he could escape, but escape was cut off.

Mr. Beaton put up at the United States Hotel as has been his custom, but on the night selected by the conspirators, under pretext that at the Perry House a new customer awaited him with a large order for seeds, he was lured there and met on his arrival, which was hurried (John only hurries when he sees or imagines he sees business ahead) — not a new customer, but instead the arch conspirator Daniel Coughlin, who parleyed a little with John until the arrival of reinforcements, when he was laid siege to and carried — where? — into the best appointed dining-room of the Perry House, and there, greeting the bewildered gaze of John, was a table covered with the best and choicest viands and other things that could be produced, the whole constituting a grand banquet in the honor of Mr. John Beaton.

It is only a mild way of putting it when we say the victim was overcome with emotion, but he was so to so great an extent that his tongue failed to give utterance to the words of gratitude he fain would utter. About eighteen gardeners sat at the table, and after cigars were lighted, each had words of compliment to say of the guest of the evening. When all had said enough and what Mr. Beaton thought more than enough, he (Mr Beaton) thanked his hosts, as he said, not only for their hospitality but for an honor he would always proudly think of. D. M.

Gardening under Glass



Try **Watson** for select stocks of Tomatoes and other Vegetables for forcing under glass You will not be disappointed. Twenty years' experience behind every order filled:

	PKT.
FORCING TOMATOES	
Frogmore Selected	$ .25
Sutton's Best of All	.15
Lorillard (true stock)	.15
Pepper's Prolific, new	.25
Stirling Castle	.25
FORCING LETTUCES	
Emperor	.05
Hittinger's Belmont	.05
Wheeler's Tom Thumb	.05
Detroit Market	.05
Grand Rapids	.05
FORCING RADISHES	
Long White Icicle	.05
Scarlet Button	.05
Ex. ey. white tip sct.	.05
Earliest white Olive	.05
" carmine Olive	.05
FORCING ROOTS	100
Asparagus Columbian Mammoth	2.00
Rhubarb, Myatt's	5.00
OTHER FORCING VEG.	PKT.
Rockford's Market Cucumber	.25
Rollinson's Telegraph Cucumber	.25
Diamond Jubilee Melon	.55
Royal Sovereign Melon	.50
Gunton Scarlet Melon	.50
Parisian Forc. Carrot	.00
Ex. ey. Erfurt Cauliflower	.25
BOOKS	EACH
Bailey's Forcing Bk.	1.00
Morse's Rhubarb Culture	.50
Falconer's Mushroom Culture	1.00
Robinson's Mushroom Culture	.65
Watson's Mushroom Culture	free

☞Send for my catalog. Free. Stamps acceptable for small amounts. Glad to open an account with any responsible buyer. Don't forget we are "it" on mushroom spawn! Address all orders to ***"Juniper and Locust Streets, Philadelphia"*** or ***"Watson's Seed Store, Philadelphia."***

GEORGE C. WATSON

HORTICULTURE is the only paper of its class in America.

THE PRODUCTS OF BURPEE'S SEEDS

BESIDES WINNING

Several Gold Medals,

WERE AWARDED A

Grand Prize

For Display of VEGETABLES

AT THE 1904

St. Louis World's Fair!

Mr. C. W. Holley, of Glens Falls, N. Y. won **A GRAND PRIZE and GOLD MEDAL** at the World's Fair with vegetables grown from Burpee's Seeds. This was the supreme award. Other stocks got Gold Medal, but Burpee's was the only **GRAND PRIZE**. See also photograph of his exhibit which won first prize at the great *New York State Fair*,—as shown on **page 175** of Burpee's Farm Annual for 1905.

☞The winnings at the various fairs for the season entitled Mr. Holley to Burpee Premiums as follows: Seven County Fairs at $5.00 each; one State Fair, with photograph, $21.00; and the National Extra Price of $100.00. In addition we sent our check also for an "honorarium" of $100.00 in appreciation of the magnificent results that Mr. Holley, *at his own expense*, attained at St. Louis. ☞Thus Mr. Holley won the past fall, a total of **thirteen hundred and twenty-five dollars and fifty cents in cash prizes for the products of BURPEE'S "Best Seeds that grow."**

In Iowa, as usual, the first prize at State Fair was won by Mr. L. G. Clute,—exclusively with the products of Burpee's Seeds. Mr. Clute was made Superintendent of Iowa's Agricultural Exhibit at the World's Fair. He wrote us from St. Louis, November 21, 1904, that in this great Iowa Exhibit, which was awarded **a GOLD MEDAL and also the GRAND PRIZE**, *all the vegetables were grown from* Burpee's Seeds; also the Sweet Corn, Pop Corn, and Potatoes, *all grown from* Burpee's Seeds!

The Results at the State Fair of **Minnesota, Wisconsin** and **Kansas** are announced on **page 19** of Burpee's Farm Annual. Other States did equally as well, and we shall publish several more photographs of State Fair Exhibits in our New Prize Supplement for 1905. We are *justly proud* of all prizes won by our customers, as also of the *Two Gold Medals* and *Two Silver Medals* (including **the only GOLD MEDAL on Lawn Grass**) awarded directly to us for our own *Growing Exhibits* at the St. Louis Exposition. Although our business is not yet "thirty years old," no other seeds have ever had such universal endorsement at State and County Fairs!

☞If you are interested to know more about the *Unequaled Record* made throughout America,—at State and County Fairs,—by the popular prize-winning products of Burpee's Seeds, you have only to ask, *with your order*, for a copy of our Prize Supplement for 1905.

Unlike most "seedsmen," we are **actual GROWERS of Seeds**, having our own farms in Pennsylvania and New Jersey, supplemented by private contracts throughout America and Europe, subject also to our personal inspection. We have no branch establishments, and all orders must be addressed to

Philadelphia, Pa.

W. Atlee Burpee & Co.

CARLSON IMPROVED

ASTER SEED

Pure Strain Recognized as the leading Aster for Cut Stock. No disease. No "yellows"

EARLY WHITE	**Trade pkt., 25c.;**	**½ ounce, 50c.;**	**ounce, $1.50**
LATE WHITE	"	**25c.**	"	**50c.**	"	**1.50**
SHELL PINK	"	**25c.**	"	**50c.**	"	**1.50**
LAVENDER	"	**25c.**	"	**50c.**	"	**1.50**

Order early to insure getting all colors

E. H. Hunt, 76-78 Wabash Ave., Chicago

HOWARD'S ROYAL SPLENDOR VERBENA SEED

THIS truly remarkable Strain is the result of over 25 years careful selection and breeding. Plants of this Strain are remarkably vigorous and compact, flowering in the greatest profusion, with blossoms of the largest size, with wide range of the rarest and most beautiful colors and shades. The Royal Splendor Strain has won the highest awards of the Mass. Horticultural Societies, and other floral exhibitions. **CHOICE MIXED COLORS, PER TRADE PACKET, 35 CENTS.**

A. B. HOWARD & SON, - - - - BELCHERTOWN, MASS.

JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City

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Wholesale Commission Dealer in
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Telephone : 902 Madison Sq.

Wm. Ghormley
57 West 28th St., NEW YORK
All Popular Roses and Carnations
Rhinebeck VIOLETS The Cream
Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens
ALL SELECT STOCK

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	NEW YORK Jan. 11	BALTIMORE Jan. 7	BUFFALO	PITTSBURG Jan. 9.
ROSES				
Am. Beauty, fan. and sp.	25.00 to 50.00	35 00 to 50 00	..... to	50 00 to 60.00
" extra	15 00 to	20 00 to 25 00	..... to	35 00 to 40.00
" No. 1	8.00 to	10 00 to 15 00	..... to	20 00 to 25 00
" Lower grades	3.00 to 4.00	5.00 to 8 00	..... to	8.00 to 15.00
Bride and 'Maid, fan. and sp.	12.00 to 15.00	10.00 to 12 00	..... to	15 00 to 20 00
" " extra	8.00 to 10.00	8.00 to 10 00	..... to	12 00 to 14.00
" " No. 1	5 00 to	..... to	..... to	8 00 to 10 00
" " Lower gr.	3 00 to 4.00	4.00 to 6 00	..... to	4 00 to 5 00
Liberty, fan. and sp.	25.00 to 40.00	..... to	..... to	20.00 to .....
" extra	12.00 to	..... to	..... to	..... to .....
" No. 1	8.00 to	..... to	..... to	6 00 to .....
" Lower gr.	3.00 to 4.00	..... to	..... to	..... to .....
Golden Gate Best	15 00 to	10.00 to 12.00	..... to	..... to .....
Ivory Medium	8.00 to 12.00	6.00 to 8 00	..... to	..... to .....
Chatenay Culls	3.00 to 6.00	4.00 to 5.00	..... to	..... to .....
CARNATIONS				
Lawson Class	2.50 to 4.00	3.00 to 4.00	..... to	4 00 to 5 00
General Class	1.50 to 2.50	2.00 to 3.00	..... to	2.00 to 3 00
Lower Grades	.75 to 1.00	1.00 to 2.00	..... to	1.00 to 1.50
VIOLETS				
Special	..... to 1.75	..... to	..... to	2.00 to 2.50
General	30 to 1.00	....50 to 1.00	..... to	.75 to 1 25
Single	25 to .75	....50 to 1.00	..... to	.50 to 1 00
ORCHIDS				
Cattleyas	50 00 to 75.00	..... to	..... to	..... to .....
Cypripediums	12.00 to 15.00	..... to	..... to	..... to .....
BULBOUS				
Lilies	10 00 to	0.00 to 12.50	..... to	..... to .....
Lily of the Valley	2.00 to 3.00	3.00 to 4.00	..... to	3 00 to 4 00
Roman Hyacinths	1 00 to 2.00	2.00 to 3.00	..... to	2.00 to 3.00
Paper White Narcissus	1.50 to 2 00	2.00 to 3.00	..... to	2.00 to 3 00
Trumpet Narcissus	..... to	..... to	..... to	..... to .....
Tulips	2.00 to 4.00	..... to	..... to	3 00 to 5.00
Callas	10.00 to 12.00	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	4.00 to 6 00	..... to	..... to	..... to .....
Sweet Peas	..... to	1.00 to 1.50	..... to	..... to .....
Adiantum Cuneatum	.75 to 1.00	....75 to 1.00	..... to	..... to .....
" Croweanum	..... to 1.50	..... to	..... to	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	8 00 to 10 00	12.00 to 25.00	..... to	10 00 to 15 00
Asparagus Plumosus, strings	25 00 to 50.00	25.00 to 50.00	..... to	25.00 to 50 00
" " bunches	25 00 to 50.00	..... to	..... to	..... to .....
" Sprengeri "	..... to	25.00 to 50.00	..... to	..... to .....
Stevia	1.00 to	1.00 to	..... to	..... to .....
Lilac, per bunch	1 00 to 1.50	..... to	..... to	..... to 1.50

FRANK MILLANG
at the
Flower Growers' Market
55-57 W. 26th Street
NEW YORK
Telephone, 299 Madison Square
Open 6 A. M.

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

Violet and Carnation Growers
Will find a reliable market with
W. H. GUNTHER
30 W. 29th Street, New York
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LOUISVILLE WHOLESALE FLOWER MARKETS

Business conditions were particularly favorable last week, many decorations and funeral designs being demanded. Carnations are of very good quality, but are still very scarce. Sweet peas, violets, and lilies of the valley are all very good quality, but with the exception of the lilies of the valley, are not in sufficient supply for the demand. Roses can be had in better quantities. Demand good.

NEW YORK FLOWER MARKETS

A pronounced depression and accompanying downfall in values in the cut flower market in the early part of January is no novelty. The stagnation following the holidays has been variously explained, but the fact is very apparent every year, and explanations do not modify it in the least. The present year is no exception to the rule. Those who feel it most keenly are, however, buoyed up by the confidence that the part of the season yet to come will also prove no exception to the well-established rule that, following the dullness of January's first two weeks, big business is soon due and may be reasonably expected to stay with us until Ash Wednesday interferes.

New Year's Day had hardly passed when signs of trouble began to appear. It needed but a day to bring demoralization, and since that time the wholesale end of the flower traffic has been "infernally bad," as one dealer aptly puts it. The topple included about everything in the list, from American Beauty roses down to Stevia. Probably the violets have been the worst sufferers. Cold and rain have kept the street dealer out of commission, and his assistance, so serviceable in the event of a glut, has not been available to help unload the stock that has been coming in so freely. Lilies and bulb flowers are all plentiful. So are carnations, and the quality is good, but values rule very low for the season. Next week we hope to be able to announce a revival.

PITTSBURG MARKET REPORT

Weather conditions had much to do with the "Ups and Downs" on prices for the first week in the New Year. All stock, except roses, was more than plentiful. The demand was only ordinary. Roses of good quality still remain scarce. The poorer are plentiful, but holding their own pretty well in price.

Last year President Roosevelt and the Cabinet set the example by wearing a carnation in the lapel on January 29th, the anniversary of McKinley's birthday. At the Capitol on that day the pages went around the House and Senate chambers with great boxes of carnations and every Senator and Representative, Democrat and Republican, pinned a carnation upon his lapel. Following the good example thus set, this tribute was paid by citizens of Pittsburg generally, and among the throngs on the street, carnations were everywhere observed. At our larger hotels and cafés, tables were decorated with carnations and the patrons were permitted to take them away. To keep this lovely tribute in vogue will only require the mentioning of the fact to your local papers.

Obituaries

J. M. Kimberlin, the seed grower of Santa Clara, Cal., died of paralysis, on December 26.

John Fallon, for many years a leading florist of Staunton, Va., died on December 27, aged 72 years.

F. Thom, 1259 Milwaukee Ave., Chicago, died December 31. He has been in failing health for a long time. He leaves a widow and children.

C. B. Derthick, manager of the Ionia Pottery Co., died at Ionia, Mich., on December 23, from a stroke of paralysis. He was a member of the S. A. F.

Charles H. Souther, whose conservatories have furnished many beautiful displays of plants and flowers for the exhibitions of the Massachusetts Horticultural Society, died on January 4, at his home in Jamaica Plain, Mass.

Karl Müller, 66th and Elmwood Ave., Philadelphia, Jan. 6th; aged 91; such was the brief announcement that came as a reminder to the craft that one of the oldest florists in the country had finally passed away. Mr. Müller was well known and highly respected, and while retired from active business, he kept his faculties to the last and up to within a week of his death was sitting around making cuttings, etc. His son, August Müller, has been running the establishment for some years.

NEW YORK FLORISTS' CLUB

The first meeting of the new year was a very fraternal and happy occasion, about sixty members present. President Traendly signalized the beginning of his second term of office by the presentation of a concise and practical address, which we publish in full in another column of this issue. He was followed by Vice-President Shaw who also read a paper referring appreciatively to his fifteen years' association with the organization and indicating in a pleasant vein how he expected the club to progress during the year to come and bespeaking earnest individual effort towards greater efficiency on all lines. The other officers, on assuming their duties for the year, also briefly expressed their acknowledgments and good intentions and the various committees rendered their reports.

Mr. Sheridan, for the dinner committee, announced Saturday, February 4, as the date and the St. Denis Hotel the location of this interesting annual event, and urged a large participation by the members. Mr. Nugent, for the house committee, reported a year's acceptable entertainment at a moderate cost, and was rewarded with a vote of thanks and an appropriation for the coming year, including assistance in the peculiar duties of this committee at the regular meetings. The board of trustees presented its report, showing an increased balance in the treasury, and recommending that the secretary attend to the sending out of due bills and receipting for dues paid on and after July 1st, and this recommendation was adopted by the club. The secretary's report showed that the average attendance at the meetings of 1904 had been 78. It was voted that an outing be arranged for the coming summer as in past years, and a committee was appointed with full power to arrange therefor. Other committees were appointed, with chairmen as follows: legislative, J. N. May; essay and entertainment, J. B. Nugent, Jr.; awards, Patrick O'Mara. It was voted that the February meeting be Ladies' Night, and that a special exhibition of carnations be arranged for that date.

A letter was received from Prof. W. G. Johnson, expressing gratitude for the kind interest evinced by the club in that gentleman's candidacy for the position of assistant secretary of agriculture at Washington.

A communication was presented from the secretary of the anti-trust league asking the club's endorsement of the W. R. Hearst bill for the regulation of railroad matters, and same was referred to the trustees. Mr. Wallace asked for a good attendance at the carnation meeting in Chicago, and suggested that all try to go together in one party. From the Morris County Gardeners' and Florists' Club came a cordial invitation, through Mr. Duckham, for the members to attend the annual smoker of that society at Madison, N. J., on Wednesday evening, January 11.

Annual Address of President F. H. Traendly

Gentlemen of the New York Florists' Club: — I thank you heartily for the mark of confidence you have shown me by re-electing me to the office of president for the ensuing year. Well attended meetings, a liberal response to our invitations to all who might have something to show on the nights set apart for special exhibits; good work by the different committees — all these have contributed to make the past year successful. That the same favorable conditions may be with us during the year to come is my earnest hope.

The Club is in a flourishing condition, and the treasurer's report will show a growing surplus, as the following extract proves: —

Cash balance January 1, 1904, $ 911.63
Cash balance January 1, 1905, 1226.52

The membership is at present about 200, of which 147 are in good standing; 32 owe one year's dues and 18 have received a final notice to make good their indebtedness at once. These figures may seem to compare unfavorably with last year's report, but the list of delinquents has been gone over by the Board of Trustees and a good deal of deadwood dropped from the roll.

It is proper at this time to say to proposers of new members that the initiation fee of $3.00 must be handed in to the Secretary with every proposition before a name can be presented to the Club.

I recommend a repetition of last year's program to arrange for special exhibitions on stated nights during the year, beginning with Carnations at the February meeting. It would tend to increase interest and make these nights still more attractive if we could have a paper read by a specialist on the principal exhibit of the evening.

I hesitate to refer to a revision of the rules governing the Committee on Award, but I have heard suggestions that the rules might be improved; I think, however, that matter may safely be left with the committee and if it sees fit to make recommendations, the Club will consider them.

The House Committee seems to have made itself indispensable and a fair appropriation for this year is advisable. I recommend that the Committee make arrangements for a Ladies' Night for the February meeting and provide proper entertainment. If agreeable to the Club, I would suggest that we entertain the ladies again towards the close of the year.

One or two illustrated lectures might be arranged for by the Essay and Entertainment Committee during the year.

This is an opportune time to consider the subject of the Club's Annual Outing and to invite suggestions as to the place where we are to go.

As a member of the Second Outing Committee, with some of its members we visited all places near the city and found most of them undesirable or inaccessible, Wetzel Point Grove being more attractive than any. This Committee should be appointed at once, with instructions to make arrangements with the management of the place determined upon at this meeting.

The bowling contingent is reminded that it is time to get to work, enlist recruits, and try to make a record for New York. We are not handicapped by distance to be traveled this year, and a good team ought to be got together and give a good account of itself in Washington this summer.

Concluding, I want to testify to the warm support given me by the officers of the Club during the past year. The Secretary has done his good share, and how much that amounts to is not generally appreciated by the majority of members. His work has been most valuable towards the Club's welfare.

The Treasurer has seen to it that the Club's funds have not been idle, and the fact that all but a couple of hundred dollars are drawing interest, which amounts to enough to pay two-thirds of our rent, shows with what zeal he cares for our financial wellfare. With the continued assistance of these, the other officers, committees and members, I hope to be able to serve you acceptably during the coming year.

Personal

Mr. and Mrs. R. Hunnick of Newport, R. I., will celebrate their silver wedding on Monday evening, January 30.

J. N. May of Summit, N. J., has been critically ill for three weeks. Although now somewhat improved, he is still very sick.

President Goodell of Amherst Agricultural College, has been given a leave of absence of six months on account of ill health.

Julius Roehrs of Rutherford, N. J., who has been seriously ill with pneumonia, went outdoors for the first time this week. A host of friends will be glad to learn the good news.

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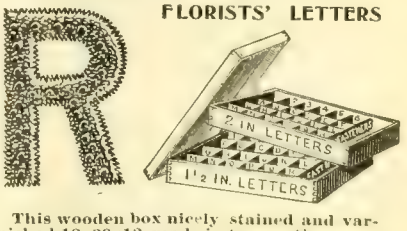
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FLORISTS' LETTERS


This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1½ or 2-inch size, per 100, $2.00.
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	CHICAGO Jan. 11	ST. LOUIS Jan. 7	PHILA. Jan. 10	BOSTON Jan. 12
ROSES				
Am. Beauty, Fan. & Sp.	35 00 to 40 00	40 00 to 50 00	60 00 to 75 00	25 00 to 40.00
" Extra	15 00 to 20 00	15 00 to 25.00	30 00 to 40.00	15 00 to 20.00
" No. 1	7 00 to 12 00	..... to	..... to 25 00	8 00 to 10.00
" Lower grades	..... to	4.00 to 12.00	12 00 to 15.00	3.00 to 4.00
Bride & Maid—Fan. & Sp.	10 00 to 12 00	8 00 to 10.00	..... to	10.00 to 12.00
" " Extra	8 00 to 10 00	6.00 to 8.00	15.00 to	6.00 to 8 00
" " No. 1	6.00 to	..... to	10.00 to 12 00	4.00 to 5.00
" " Lower gr.	3 00 to	3.00 to 4.00	4.00 to 6.00	1.00 to 3 00
Liberty, Fancy & Special	15 00 to	8 00 to 10 00	25 00 to 30 00	12.00 to 15.00
" extra	12 00 to	6 00 to 8.00	15.00 to 20 00	..... to .....
" No. 1	10.00 to	..... to	10.00 to 15 00	4.00 to 6.00
" Lower grades	4 00 to 6 00	4 00 to 6 00	..... to 12.00	..... to .....
Golden Gate, Ivory, Chatenay — Best	8.00 to 10 00	8 00 to 10 00	15.00 to	..... to 8 00
Golden Gate, Ivory, Chatenay — Medium	6.00 to 8.00	6 00 to 8.00	8 00 to 12 00	..... to 6 00
Golden Gate, Ivory, Chatenay — Culls	4 00 to 6 00	4.00 to 6.00	4.00 to 6.00	..... to 4.00
CARNATIONS				
Lawson Class	1 00 to 5.00	3 00 to 5.00	4.00 to 6.00	2 00 to 4.00
General Class	1.00 to 4.00	2.00 to 3.00	1.00 to 3.00	1.00 to 2.00
Lower Grades	..... to	..... to	..... to	..... to .....
VIOLETS				
Special	..... to	..... to	..... to	..... to .....
General	.50 to 1.00	1.00 to 1.50	.25 to 1.25	.35 to .75
Single	.50 to .75	.50 to 1.00	.25 to .75	.35 to .75
ORCHIDS				
Cattleyas	35.00 to 75 00	..... to	..... to	..... to 50 00
Cypripediums	12.00 to 25.00	..... to	..... to	..... to 12.50
BULBOUS				
Lilies	15 00 to 20 00	15.00 to	20.00 to	10.00 to 12.50
Lily of the Valley	3 00 to 5.00	3 00 to 4 00	1.00 to 5.00	3 00 to 5.00
Roman Hyacinths	3 00 to	2.00 to 3.00	1.00 to 2.00	1.00 to 1.50
Paper White Narcissus	3.00 to	2.00 to 3.00	1.00 to 3.00	1.00 to 1.50
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Tulips	3.00 to 6.00	..... to	..... to	..... to 3.00
Callas	10.00 to 12.50	12 00 to 15 00	..... to	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4.00 to 10 00	3 00 to 4 00	..... to	3.00 to 4 00
Sweet Peas	.50 to 1 00	..... to	..... to	..... to 1 00
Adiantum Cuneatum	.75 to	1 00 to 1 25	1 00 to	.75 to 1 00
" Croweanum	1.25 to	..... to	1.50 to	..... to .....
" Farleyense	1.25 to	..... to	..... to	..... to .....
Smilax	12 50 to 15 00	15.00 to	12 50 to 15.00	8 00 to 12 00
Asparagus Plumosus; strings	35 00 to 50.00	35.00 to 50.00	.35 to .50	35 00 to 50.00
" " bunches	25.00 to 50.00	..... to	..... to	20 00 to 35.00
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Roses and Carnations A Specialty..... WHOLESALE GROWER of **CUT FLOWERS**

BOSTON FLOWER MARKETS

The overstock in all lines of cut bloom which is reported generally from other localities exists in Boston to an exasperating degree. All grades are in heavier supply than the demand can care for, and the weather is such that the curbstone merchant cannot take advantage of the situation. Country shipping trade has fallen off seriously during the past week. This especially affects the carnation market, as carnations are the standard stock in trade of the country florist, and the product is accumulating in wholesalers' hands. Lawson, Enchantress, and other aristocratic members of the family are in the same boat with the more plebeian stock and are offered freely at figures not usually applicable to these grades. In roses, as usual in a time of plenty, the lower grades are the worst sufferers, as the best are demanded at low figures, and the ordinary stock is sidetracked for the time being. Violets have been very risky property during the past few days, and it is evident that other markets are in a similar condition, as many violets have been shipped in here during the week, from remote localities not often heard from in Boston and popularly regarded as exclusively interested in markets elsewhere. Smilax begins to show signs of a stiffening up in the near future.

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Florists' Supplies

BEST LINE IN THE COUNTRY

PHILADELPHIA FLOWER MARKET REPORT

The last week closed with American Beauty and Liberty roses moving very slowly; Teas going fairly well. Carnations badly overstocked and prices away down. Bad weather all the week and no street trade in consequence caused the accumulation. Violets shared in this misfortune. Orchids have been doing well, there being more cattleyas sold last week than at Christmas and cypripediums enjoying a regular demand. White lilac is coming in freely but moves slowly and trade in all bulbous stock is stagnant.

CHICAGO FLOWER MARKET

The first week of 1905 was marked by a sharp contraction in demand. The receipts at Chicago compared with those of the same period last year are about even. Moderate offerings on long-stemmed Beauties met with ready sale, although the medium lengths enjoyed the best call. Good teas were again in light supply and anything of 30-inch stem brought easily $20 per 100. Teas of second size grades which sell from $6 to $10, were in comparatively good supply, and it was on these grades the most sales were made. An irregular market prevailed in carnations and the changes were all on the side of reductions in prices and the general tone of the market was such as would give satisfaction to the street venders generally. Quality showed some improvement, but even with this as an aid, sellers were unable to prevent or even postpone the time for decline. Fresh arrivals' prospects were not rosy for a good clearance. The violet situation is no better. Lily of the valley is plentiful. Roman hyacinths are a drug. Mignonette is meeting with ready sale. Some fine white lilac is arriving. The green goods are in ample supply. Shipping trade is nominally steady, but the local demand is marked by great unevenness. The orchid market was lightly supplied and is steady.

BERGER BROTHERS **Roses, Carnations**

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

CHICAGO JOTTINGS

Visitors, G. F. Crabb and C. R. Hills, Grand Rapids, Mich.

Fred Sperry of Vaughan & Sperry and W. N. Rudd are among the recent victims of the grippe.

Peter Reinberg filled an order received from an eastern store this week for 1,000 American Beauties. It is not so long since Chicago was a good customer for the eastern growers.

E. G. Hill was in town last week and exhibited his red rose Richmond at the Benthey-Coatsworth salesroom, where it was an object of much admiration. Over 30,000 of this rose have been ordered by five local growers.

At the Theodore Thomas funeral, notwithstanding the request "Please omit flowers," many flowers were called for. E. Wienhoeber Co. had charge of the floral decorations. One of their largest pieces was a laurel wreath, six feet in diameter, on an easel with a cluster of long-stemmed American Beauties arranged in the center. A handsome oval wreath of leucothoe foliage was much admired. There were many arrangements of violets.

The Chicago Flower Growers' Market held their annual meeting January 3, 1905, and the following officers were elected: Emil Buettner, President; William Tonner, Vice-President; F. R. Hills, Treasurer; A. Henderson, Recording Secretary; Percy Jones, Financial Secretary and Manager. Board of Directors for 1905: Emil Buettner, F. R. Hills, A. Henderson, Walter Tonner, John Sinner. The management was congratulated upon the excellent showing made.

At John C. Ure's place, 2843 Evanston Ave., they are very enthusiastic on the merits of Impatiens Sultana as a winter bloomer. Cuttings planted out last May have grown to enormous sized plants in 8-in pots, measuring four feet in diameter. From the large blocks of this stock in propagating benches it seems they anticipate a large demand for this old-time favorite. I also noticed an interesting collection of scented geraniums, ten varieties which will be offered to the trade at the opening of the cutting season.

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The Two New Varieties:

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Our past introductions in
CHRYSANTHEMUMS
have stood the test also.
Our set for 1905
GERANIUM and BEGONIA NOVELTIES
are of the same high standard.
NATHAN SMITH & SON
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NOW READY!

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MRS. THOMAS LAWSON

Planted May 18th, in full crop middle of August

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$10.00 per 100
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to sell or

Novelties

in Carnations to

Introduce

Let us hear from you

We will give you a Good send-off

NEW DAISY

Queen Alexandra

We are now booking orders for delivery during the latter part of February for this charming new form of Chrysanthemum Frutescens or Paris Daisy, an introduction from South Africa, and a plant which should prove desirable both as a cut flower as well as a pot plant.

The illustration shows three forms of flowers which appear on the same plant. The double and semi-double form are not unlike an Anemone-flowered Chrysanthemum.

PRICE:

20c. each, $2 per doz., $15 per 100



HENRY A. DREER, Philadelphia, Pa.

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We wish to announce to the trade

that GIBSON BEAUTY, the new carnation that we have sold so extensively, has not come up this season to its past record, or our expectations, being a late bloomer and giving but few blooms before Christmas. We have decided not to disseminate same and have canceled all orders that have been placed.

Yours very truly,

J. D. THOMPSON CARNATION CO.
SWAN PETERSON FLORAL CO. } Introducers

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Carnation Cuttings

	Per 100	Per 1000
ENCHANTRESS,	$3 50	$30 00
FAIR MAID,	2 50	20 00
THE QUEEN,	3 00	25 00
QUEEN LOUISE,	2 00	15 00
LAWSON,	2 50	20 00
CRESSBROOK,	2 00	15 00
CHALLENGER,	2 00	15 00
MACEO,	2 00	15 00
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Fine large Duckham Chrysanthemum Stock plants at $1.25 per doz.

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Outdoor Art and Craft

The controller and mayor of Greater New York have announced their willingness to favor an appropriation of $4,000,000 for small park purposes during 1905.

The park commissioners of Hartford, Conn., have voted to continue this year the spraying of trees and shrubs to exterminate the San José scale, and the sum of $350 will be devoted to this purpose.

The town of Stoneham, Mass., has appropriated the sum of $1,000 toward the suppression of brown-tail and gypsy moth pests, and the money will be expended under the direction of tree warden W. H. George.

We are duly gratified to Mr. Robert Aul, park commissioner of St. Louis, Mo., for a copy of his annual report. It is an album of handsome half-tone views in the parks of St. Louis, and the text contains much interesting information.

It is now proposed to dam the Mystic River at Craddock bridge in Medford, Mass. The report by Engineer Freeman to the Metropolitan Park Commission recommends this improvement as not only desirable as a park feature, but one that is absolutely necessary as a sanitary measure.

The Mayor of Lowell, Mass., in his annual address, gives particular attention to the question of park improvement, and recommends appropriation by the city to enable the Park Commission to install athletic apparatus, and for other accommodations for the young people's enjoyment in the public grounds.

Prof. A. B. Kirkland delivered a lecture at Melrose, Mass., on January 5, his subject being "The Best Means of Destroying the Brown-Tail and Gypsy Moth." Large delegations from the Tree Protection Associations in the neighborhood were present. Prof. Kirkland is probably the best informed man on this subject in this country.

The mayor of Malden, Mass., in his inaugural address recommends a petition to the General Court asking for special legislation empowering the city to accept the gift of Pine Banks from the Converse estate, and a joint arrangement for the assumption of the maintenance of the park by the two cities of Malden and Melrose, as provided for in the bequest.

THE MOTH PROBLEM

Secretary Wilson of the Department of Agriculture declines to consider the gypsy moth and the brown-tail moth of Massachusetts as interstate problems, and he asserts that they are for Massachusetts alone to take care of. Mr. Wilson has been responsive enough in the past to appeals from other sections of the country for help in the suppression of insect pests, and he may yet listen to the cry that is sure to come up from New England, and probably from other sections, for aid in stemming the ravages of the bugs. It is clear enough that both species of moth are finding their way into the adjoining states, and that it is only a matter of time when all parts of the country will be more or less infested with their presence. The national Department of agriculture ought to take as much interest in them as it does in other enemies of the agricultural industries, though we think the main reliance in keeping them down should be the efforts of the farmers themselves. An investigation by the department's experts might help in the discovery of means of cure or prevention — certainly of restriction — and this, it seems to us, is due to the whole country, leaving out the peculiar interest of New England at the moment in the matter. — *New Bedford* (Mass.) *Standard.*

Business Changes

M. S. Good is starting a nursery business in Hitt, Mo.

Culligan & Co. succeed the Art Floral Co. in San Francisco, Cal.

The Shelly Floral Co. has been incorporated in New York with $5,000 capital.

August Ellwood has opened a new flower store at 640 Madison Ave., New York City.

Robert Symmons, formerly with George Wittbold Co., has started a retail business in Morris, Ill.

The Metairie Ridge Nursery Co., Ltd., of New Orleans, La., has been incorporated. Harry Papworth is president and general manager of the new company.

Murray & Keene, Flushing, N. Y., have sold their nursery property for building purposes. They have eighteen months in which to get the trees and other property removed.

The American Horticultural and Distributing Co., has been incorporated to do business in Martinsburg, W. Va., manufacturing and dealing in horticultural and agricultural implements and chemicals. Capital, $25,000.

Greenhouses Building or Projected

ORMOND, FLA. — H. V. Betts, one house.

BRANDYWINE, DEL. — N. L. Talley five houses.

MILTON, MASS. — N. T. Kidder, plant house, 20.Æ150. By Hitchings & Co.

Metairie Ridge Nursery Co., Ltd., New Orleans, La. Range of greenhouses.

The General Assembly of the State of Rhode Island has been asked to appropriate $15,000 for a greenhouse at the Rhode Island College of Agriculture and Mechanical Arts at Kingston.

At the annual meeting of the board of managers of the New York Botanical Garden, Dr. Britton called attention to the rapidly filling greenhouses and the advisability of planning for the construction of another range of houses, which should have a floor area of at least, as great at the present range, to be erected to the eastward of the Bronx River.

The report of President H. H. Goodell to the trustees of Amherst Agricultural College recommends the addition of a number of horticultural buildings, and it is understood that the trustees will recommend to the Legislature immediate permanent improvements at a cost of over $100,000. This includes $3,200 for an addition to the greenhouse of the entomological department; $39,500 for erecting and equipping a new building, and $14,600 for a new greenhouse in the horticultural department; $35,900 for a new building in the botanical department; and enough additional money to connect the botanical and horticultural buildings with the heating plant.

"Waterbury would do well to follow the example of Springfield in the matter of civic pride, which is a little lacking here. In Springfield private citizens have contributed money enough to buy two whole city blocks to make into a park, and now they are thinking of taking the whole river front for a popular drive. If such a scheme were even suggested in Waterbury, which is richer by far in proportion, we could see the awful fuss that would be made. Wake up, Waterburians, and take a little pride in your city." — *Waterbury* (Conn.) *Telegram.*

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The proper sorts. Clothilde Soupert. General Jacqueminot, Ulrich Brunner, La France, Magna Charta, Crimson Rambler, etc.; fine field-grown plants that have never been forced, suitable for 5-in. pots, at 7c.; larger for 6-in., at 12c. Crimson Rambler, XXX, long tops, 20c. Large flowered Clematis, finest purple, lavender, white and red sorts, 2-year at 18c.; 1-year at 9c. Hydrangea pan. grand., fine bushy plants, 8c. Other shrubs, etc., in cellar, priced on application. Packing free for cash.

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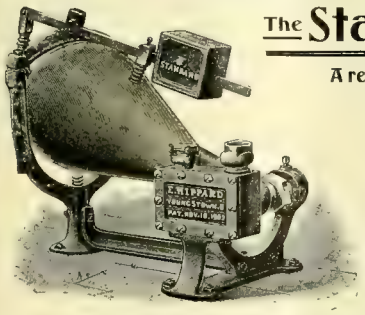
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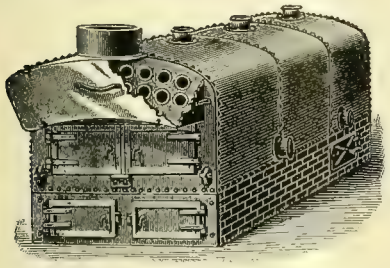
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LIST OF PATENTS
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779,137, Fertilizer-Distributer. Charles B. Rozar, Dubois, Ga.

779,259, Fertilizer Distributer. John M. Brasington, Bennettsville, S. C., assignor to C. S. McCall, Bennettsville, S. C.

779,115, Cultivator or Plow Frame. James F. Bowers, Sanford, N. C.

779,060, Cultivator-Tooth. Stephen E. Auker, Wayne, Neb.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G., Washington, D. C., by mentioning HORTICULTURE.

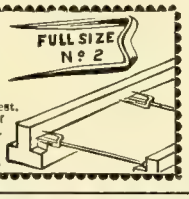
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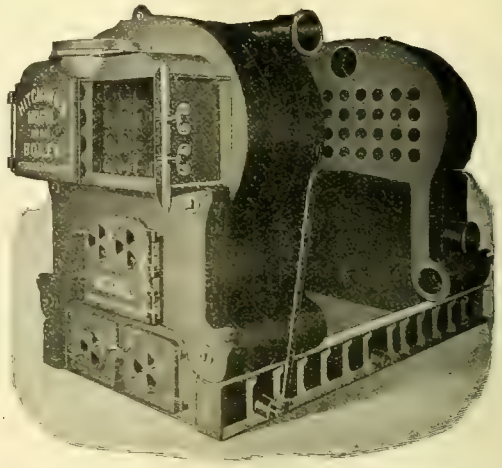
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HORTICULTURE

Vol. I JANUARY 21, 1905 No. 8



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Chatenay Seedling, Very Deep Pink

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VOL. I | JANUARY 21, 1905 | NO. 3

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(WARD)

HAS BEEN AWARDED THE FOLLOWING HONORS:

Preliminary Certificate . . . . . AMERICAN CARNATION SOCIETY
Special Diploma . . . . . AMERICAN INSTITUTE OF NEW YORK
First Class Certificate of Merit . . . . . MASS. HORTICULTURAL SOCIETY
" " " " " . . . . . PENN. " "
" " " " " . . . . . NEW YORK FLORISTS' CLUB
Craig Cup, for best undisseminated Seedling . . . . . PHILADELPHIA
G. Hartman Kuhn Special Prize, for best undisseminated Seedling . . . . . PHILADELPHIA

The largest, strongest stemmed, most vigorous, healthiest growing, most fragrant, and the best **Fancy Commercial Scarlet Carnation** produced to date. Ranks with Enchantress and Fiancee, having defeated the latter variety in all competitions at Philadelphia.

Will be ready for delivery on Dec. 1st, 1905 at $12 per 100, $100 per 1000. Orders, subject to buyer's cancellation if dissatisfied with variety up to Dec. 1, 1905, received now and shipped in rotation. **200,000 already entered.** Will plant 45,000 stock plants from which to select cuttings of this variety.

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Snow-white, strong clove fragrance; full, broad-petalled high-centered flower of fine symmetrical form, 3 inches in diameter, borne on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit; cuttings root readily. Commences blooming October 15, and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

$12.00 per 100; $100.00 per 1000

READY FOR IMMEDIATE DELIVERY

3,000 ETHEL WARD	$ 7 per 100
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2,000 GOLDEN EAGLE	$ 5 per 100
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2,000 NELSON FISHER	$50 per 1000
2,000 OCTOROON	
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COTTAGE GARDENS CO., Inc.

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The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

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105 WABASH AVE., CHICAGO

We execute all our correspondents' orders with greatest care and at lowest rates. Trade courtesies extended.

Decorative Art



This basket pleased me about as much as anything we have done this season. It was made for one of our most artistic patrons, who wished something Japanese. It was sent with possibly twenty bouquets to a debutante. The color combination was simply one of *browns* and *greens*; seed pods, rushes, grasses and Cypripediums in a brown basket on a white porcelain tray, and a spray of evergreen in a little bronze vase.

H. H. Battles.

Selecting Cuttings

There are not many subjects more important than the above to the successful grower. If you observe any specially good plant or good flower, have a label and mark the plant. This is particularly true of carnations. There are carnation plants every shoot of which will throw up a flower without any surplus grassy growth, while others will be full of shoots that are so vigorous and so good-looking that when the time comes to propagate they are the ones to catch the eye and, if careful attention has not been paid to mark the free-flowering plants, they are the cuttings that are taken, to the sorrow the following year. I once saw as fine looking a lot of Mrs. Thomas W. Lawsons as any one would wish to look at; they were the picture of health in February, and so they ought to be for they had given hardly a flower. On others taken from the right stock every growth had a bud or a growth that would flower.

Avoid taking cuttings from any split-flowering shoot or those that show any kind of disease or weakness in any way and you will raise the standard of your blooms and quantity next season if you will carefully select your plants, taking the cuttings only from the flowering stems. When I take carnation cuttings I look for the buds that have color showing, and take the cuttings from the stem. They are then ripe and in proper condition to root freely, and every one will be ready to take from the propagating bed at the same time. Do not try to put in all you want at one time without any regard to the proper cutting, for if you do, those that were not ripe will not be ready to take from the bed and if put back in the sand they never make good plants.

James Wheeler

Culture of Gloire de Lorraine

Regarding my method of culture of Begonia Glorie de Lorraine that has been requested for HORTICULTURE, I have grown them this year three different ways. The first I carried over old plants from last year, which I don't think I will do again. The flowers were smaller and light in color and did not last like those on the young stock. The second I rooted in March and flowered them in 8-in. pans. The third I rooted in September, 1903, and planted them around the edge of a carnation bench for the winter and potted them up in May, 1904, in 9-inch pans. The flowers were as dark in color as the ones rooted in spring, but will not last so long, as they are so thick that when it is dull weather and they have to be watered, they damp off.

I gave them the last shift about the first of July and used one part good soil, one part leaf mould, and one part rotted manure. I then placed them on shelves in rose-house near the glass till October, and afterwards hung them in a greenhouse with Krick's pot-hangers, about eighteen inches from the glass at a night temperature from 50° to 55°. I find that growing them near the glass and with plenty of sun I get stronger growth. They break better and when they flower they have better color and last much longer than if grown in the shade. They look a little yellow in the summer, but when they begin to flower in the fall and the days get short, that soon wears off.

ALEXANDER OGG.

Stroud and his Methods

That there's always room at the top was well exemplified in our visit the other day to the Strafford Carnation farm, where we had the pleasure of seeing one of the most up-to-date establishments devoted exclusively to growing the Divine Flower it has ever been our privilege to experience.

The Stroud may be classed as a prototype of the seven wise men: he studied the situation and experimented for nine years before he invested much; but having once made up his mind, he went in on a large scale and now has a fifty-thousand-dollar carnation plant that is making them all hustle to keep pace with the quality of its products. This plant is undoubtedly the peer of any in this part of the country. We all admit that, and extend our interest and admiration to Mr. Stroud. But beyond this comes the question: What can we learn? Has Mr. Stroud developed some special point that we may do well to take a note of?

He has. He has developed the fact that there was no establishment doing the carnation as it ought to be done for this market, and he has further emphasized the fact that the highest blood and breeding bring the best returns. This latter important point came out on our asking him which had proved his best money-getters during the past two seasons. His answer in effect was this:

(1) Enchantress; (2) Alpine Glow; (3) Lawson; (4) May Naylor; (5) Harry Fenn. Estimate based on cut from January 1, 1904, to July 1, 1904.

The importance of this statement will be more apparent on perusing the following list of varieties which Mr. Stroud has been pitting against the above mentioned and keeping careful tab on returns: —

Crane, Mackinac, Governor Bliss, Adonis, Joost, Genevieve Lord, Mrs. M. A. Patten, Prosperity, Ethel Ward, Judge Hinsdale, Flamingo, and a number of others in smaller quantity.

Not that many of these latter are wanting in merit and are in fact quite indispensable for various reasons, but that the first five money-getters stood at the top of the heap, and all others so far as we can figure at the present moment are to be considered as subsidiary and supplementary. The verdict is not final of course, but is valuable so far as it goes.

Alpine Glow is Enchantress as to color, only smaller. Its great merits are perfection of shade and form and grand cropping qualities.

May Naylor is one of the best whites to date; fine, big pure white; good stem; good cropper; away ahead of Flora Hill.

Harry Fenn has come prominently to the front as a fine bright crimson this season and has developed great keeping qualities. While not extra large, it is a money-maker and very satisfactory both to the grower and retailer. There was no blaze of trumpets for the Fenn advent, and yet here it is a magnificent thing and this pointer is worth dollars and dollars to you if you are reading HORTICULTURE as you ought to, from cover to cover. All the retailers want Harry Fenn, because it keeps well and does not go to sleep.

Adonis, apparently on its last legs. What a pity! In its glory what can equal this for bright, glowing red, size and form, and all the good qualities?

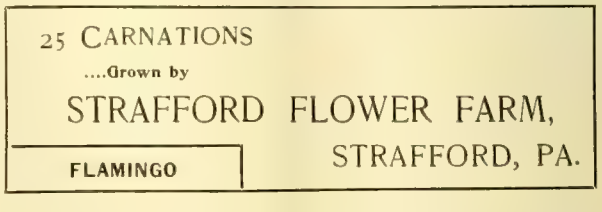
Joost; still a good one in a limited way; must not be dropped yet.

Genevieve Lord; has its place too and is still in the ring.

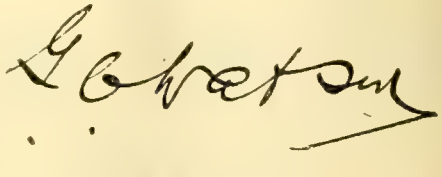
Prosperity; big and fine, but not enough; must have it of course for quality and variety; it's a magnificent carnation all right.

Flamingo; after Crane this one is a dandy — with merits all its own too.

The Strafford establishment showed fine cultural management, and a word of praise is due to Mr. Beattie who has been a faithful henchman of Mr. Stroud's for the past nine years. The location and arrangements are ideal. The buildings and fittings are all the latest Hitchings' construction, and are as near perfection as modern brains and enterprize can make them. The boys from far and near have been trooping to see the place of late, and from all accounts Mr. Stroud takes their innocent interest and homage in the most genial and good-humored spirit — busy man though he be. He told your scribe that some day when he gets better acquainted with them he is going to have a delegation up to the old farmhouse and treat them to a good pot-pie dinner. Take a note of that, ye bon-vivants of the Florists' Club and see that E. S. S. doesn't forget it.



We give a facsimile of the tag Mr. Stroud puts on each bunch. This educates the commission man and his retainers, the retailer and his assistants, and of course through the latter finally reaches the public. We think it a good idea. People will soon come to know and ask for Enchantress, Harry Fenn, just as they ask for Beauty and Bridesmaid, and be willing to pay extra because they will expect to get extra quality. We think all growers ought to use the tag until the varieties get so well known as to make it unnecessary.



Growing Specimen Chrysanthemum Plants

We might say that we begin to lay the foundation for our plants when we select the stock from which we are to propagate. We find that which has not been forced the previous year the best for this purpose. For plants that are to be flowered in 12-in. pots we propagate during the early part of January; those for 7-in. are propagated in March; otherwise the treatment is the same.

When the cuttings are well rooted they are potted in 2-in. pots and placed near the glass in a cool house. When well rooted in these pots (not pot bound) they are shifted to larger as they require. At each potting a stronger soil is given, using a mixture of well rotted fibrous loam, old manure, and a sprinkling of bone meal. As the soil is very light in this locality, with the late potting I add some clay which makes the soil hold the moisture better. I think the plants do better in a moderately heavy soil.

We begin pinching when the plants are about 4-in. high, which is continued until about the first of August according to the varieties; late flowering kinds we stop ten days earlier. The final potting is given about the middle of June, giving plenty of drainage and firming the soil well around the plants. No stimulant is given as long as the plants are making a healthy growth, but just as soon as the foliage shows that more food is needed, we commence by using cow, horse, and sheep manure in liquid form, changing each week with soot and Clay's Fertilizer,



ANEMONE-FLOWERED CHRYSANTHEMUM GARZA
GROWN BY D. F. ROY



CHRYSANTHEMUM HOUSE AT MALDEN, MASS.
VAR. A. J. BALFOUR IN FOREGROUND
D. F. ROY, GARDENER

in doses according to the strength of the plant, a weak growing variety requiring less than those of stronger growth, nor will red and pink flowered kinds stand as much as the lighter colored varieties.

We disbud all with the exception of the Pompon and Anemone flowered; these we consider much better by letting all the buds blossom, while with the others we leave the terminal bud. When the plant is finished all flowers should nearly touch each other.

When the buds begin to show color we do the staking, giving the plants the desired form and keeping the flowers in position.

Our plants were grown outside from June to August, syringed twice a day in bright weather, leaving space between each plant for the circulation of air, also to give us a better chance to see their enemies, of which they have not a few. But with a little watchfulness and care they can be held in check, and we are well repaid for our labor when the Queen of Autumn appears in all her glory.

David F. Roy

We shall be glad to receive from our readers communications on topics of interest, and our columns are at all times open for short and practical comment or discussion of timely subjects. Photographs always welcome, if suitable for meritorious half-tone reproduction.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The Carnation League of America is a striking example of what may be accomplished by consistent and incessant effort on a single line by advocates whose whole heart is in the work.

We have felt compelled, on sundry occasions in the past, to criticise the daily newspapers for their readiness to give currency to sensational and ridiculous narratives regarding the florist and his profession. We are glad now to find occasion to commend and to thank the newspapers of New Jersey for their steadfast defence of our American robin and the successful fight they have waged, on behalf of the people, against the bill permitting the slaughter of the birds. And the worst feature of the iniquitous scheme, which the public press did so much to overthrow, is that it was prosecuted in the name of horticulture.

"To what base uses we may return, Horatio!"

Schedules for the chrysanthemum shows of 1905 should be prepared at once, if not already attended to. There is little doubt that more consideration in the prize lists for the single and pompon-flowered varieties and of the decorative possibilities with these neglected subjects, would bring out results distinctly to the advantage of the exhibitions. The artistic qualities which peculiarly belong to the small flowered section seem to have been completely lost sight of by those who have assumed the duty of making out the prize schedules. It is admitted that the pompons shown in little handfulls stuck in vases, make a sorry showing on the tables alongside the big Japs, but there are ways in which they can be displayed to great advantage, and any competent committee should have no trouble in making proper provision therefor.

Each year sees the orchid gain a firmer footing as a standard cut flower for general use. Many of us can recall the time when a rose-bud held the same relation as to rarity that the cattleya does at present in the ordinary florists' stock. But in the markets of the larger cities not only cattleyas in many species, but dendrobiums, lælias, vandas, oncidiums, and of course, cypripediums are required for regular daily consumption and are really indispensable for regular use. The small florist who grows his own stock should take heed to this and make preparations for supplying the call that is sure to come his way eventually. The notion that orchids as a class are especially difficult of culture no longer obtains, and enterprising importers now advertise the most useful commercial sorts in any quantity at prices within the reach of all.

HORTICULTURE extends to the carnationists its best wishes for good weather, a large attendance, a record-breaking exhibition, and a good time all around. We hope all the trains will be on time, that every exhibit will be staged in time for the judges, that every flower will stay awake until after the show, and that every grower will go home satisfied that his pet varieties obtained due recognition and with his order-book filled from cover to cover. We have thought the occasion sufficiently important to warrant the issuance of a special Chicago supplement, showing a few of the noted and enterprising establishments which the visitors should visit while there, and portraits of some of the bright men in the profession who are unselfishly working for the success of the event. We hope the visitors will not fail to turn in some good orders to our friends, HORTICULTURE's advertisers.

Originality is at a premium now-a-days in all horticultural industries, as elsewhere. He who breaks loose from the monotony of custom is sure to attract attention, and if his innovation has merit he is assured of due recognition. There is abundant reward in store for the man who has the brains and the courage to break into untried fields in carnation, rose, or other hybridization, and an equal renown and profit for the store florist who will not be afraid to risk something on the products of such enterprise.

The sentiment on this subject seems to have undergone a radical change of late. It is not very long since it was the avowed policy of many leading retail florists to discountenance the introduction and hamper the dissemination of new varieties because such multiplication would call upon them for a larger investment for the daily stock in trade. To-day we see all the prominent dealers on the alert eagerly seeking to obtain these novelties and ready to make sensational displays of such. The immediate future unquestionably holds limitless possibilities for the exercise of initiative genius, and he who can only imitate must expect to be distanced.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

HORTICULTURE published in Boston, and only a month old, is full of advertisements, although there are half a dozen good papers in the United States. 'Tis but another proof that our United States cousins better know the value of advertising than we do. — *Canadian Florist.*

We note the appearance from Boston, Mass., of a new gardening publication entitled HORTICULTURE. It is "devoted to the florist, plantsman, landscape gardener, and kindred interests," and contains plenty of helpful articles and notes with illustrations. We hope the venture will prove a successful one, as the editor, Mr. William Stewart, is evidently doing his best in the matter. — *Gardeners' Chronicle.*

We have received a copy of the latest addition to horticultural weekly papers. Of course, the American journals have but a meager vogue in the United Kingdom, yet the fact of an addition being made to the trade journals of the United States just after the dissolution of *American Gardening* (which circulated among private gardeners) would seem to show the tendency of gardening there. One feature of our contemporary is, at least, novel. The autograph signatures of most of the contributors are given. There are many good and useful articles. — *Journal of Horticulture.*

After Adjournment

Tuesday, January 17th, was the second anniversary of the S. A. F. meeting in Boston to take action on behalf of the cut-flower industry against the oppressive advance in express rates. The trade papers of the period, as well as the daily mail of the active workers in the protest, were well-supplied with lamentations from victims all over the country who would be willing to show all sorts of gratitude if only something could be done for their relief. The boon was secured for them, but the membership roll of the Society that made it possible bears no indication that their gratitude(?) had any perceptible value.

HOW MANY?

Will some of your practical readers kindly inform a subscriber to your valuable journal, how many scions a man ought to be able to graft in a day on the Manettii stock. "BARRYMORE."

DO IT NOW

The Florists' McKinley Memorial Fund Committee would respectfully call the attention of the trade to the near presence of January 29, 1905, popularly known as "Carnation Day," or "McKinley Day," set apart for the observance of a memorial to our late President.

The committee has at different times and divers places, detailed the objects of the Carnation League of America, and the benefits already derived, and to be derived from the popular movement, by our profession, and it now feels that the time has come for prompt attention.

The committee has expended considerable effort to place this question before the trade; a fair number have subscribed to the fund; a greater number have pledged themselves; but the greatest number have failed to respond.

To those who have paid, the committee heastily thanks; to those who have subscribed, but not paid, the committee would urge prompt payment so that they may receive their certificate before January 29, and to the great number who have failed to respond, either through carelessness, neglect or indifference, the committee would urge your prompt action.

The grower and the wholesaler are equally interested and benefitted with the retailer; they must depend upon each other; the more successful the retailer, the greater demand upon the grower and the whole saler. Therefor it behooves all, from the employee to the proprietor, to have a part in a general movement, that will bring manifold good to our profession.

A generous response will easily attain our object, and obtain for our profession a fund for the National McKinley Memorial that will prove a lasting monument to the florists' profession, and that will bring back to us many times the amount invested.

Any donations (the committee terms it "investment") of $1 or more entitles the member to a handsome steel engraved certificate, fit to be framed, and when displayed in your place of business, it will prove a lasting appeal to the sentiment and patriotism of your customers, and an indication of your own loyalty to, and your interest in, our Great Republic.

Hang your certificate of subscription in a conspicuous place. Spread the fact that President McKinley had no particular choice of color. He wore from white to the deepest scarlet.

Cater to the children. High prices will force the use of a tissue paper substitute, in many cases.

Do not overcharge. Ask a moderate price, thereby showing your participation in the day.

Send your remittance to the undersigned. "Do it now."

H. M. ALTICK, *Chairman*,
Dayton, O

The Logic of Phil

Our dear friend, Jno. Welsh Young, who contributes copiously to the gaiety of nations through the pages of a contemporary, over the signature of "Phil," has "been and gone and done it again." This time not content with the humdrum and ineffective prose of ordinary times, he has lifted up his voice into song and warbles a roundelay so tuneful and stirring as might jimmy-coggle the heart of the toughest old bachelor in Christendom. Personally the writer of this was duly jimmy-coggled as he was referred to in the following mystical terms: —

THE SOLUTION

"In 1905 how would it do
To fix one price the whole year thro;
Abstain from salt and sugar. You
Might send the fakirs to Timbuctoo.
G. C. says, G. C. says."

That is not only mystical but even has a touch of the mysterious and stamps Phil a true poet as any disciple of Robert Browning will promptly tell you. After deep searching, your humble servant opines that Jno. Welsh heard of the grouch of John Jones against the fakirs which G. C. raised as a topic for discussion at the December meeting of the Philadelphia Florists' Club. But there is no evidence that it was G. C.'s opinion that the fakirs should be sent to Timbuctoo. On the contrary, he made it abundantly evident in the report of the incident which he wrote for HORTICULTURE that he favored the humble street merchants as pioneers and feeders to the more advanced distributors of the florists' products. Because he brought up John Jones's grouch for discussion, John Jones not having the courage to do it himself, according to Phil's logic, was the same as making G. C. the author of the grouch and the remedy, which is about as logical as to say that Tenterden Steeple was the father of the Goodwin Sands, or that the William Penn statue was the cause of the mud in the Delaware. But what is the use of expecting sense or logic from a poet when he has the frenzy on him? And to send the poor street merchants to Timbuctoo, —

"Once there was a missionary
On the plains of Timbuctoo,
Past there came a cassawary
And ate him up and his hymnbook too."

So you see what might happen down there. Perish the thought! Dear John, you are forgiven this time, but don't do it again right away until we have recovered from the shock of your latest effort. G. C. WATSON.

NEWS OF THE CLUBS AND SOCIETIES

The January meeting of the Gardeners' and Florists' Club of Boston, at Horticultural Hall, was marked by a rousing attendance and much enthusiasm, there being about eighty members present. The retiring president, J. A. Pettigrew, thanked the Club for its support during the past year and a committee having escorted the new officers to their seats, President James Wheeler proceeded to read the address which appears herewith, which was received with due applause. Secretary's and treasurer's report followed, treasurer Ed. Hatch treating his hearers to a little interlude on the subject of finance, frenzied and otherwise. A communication, thanking the members for their subscriptions to the Vilmorin memorial, was received from Theodore Wirth.

Mr. John Farquhar introduced a resolve looking to a change in the phraseology of the awards made to plants and flowers exhibited before the Club, whereby possible confusion with the certificates issued by the Massachusetts Horticultural Society might be avoided, and a method adopted whereby full reports setting forth merits and qualities in detail could be given to exhibitors, thus insuring a distinct and peculiar value to these documents. The matter was discussed by many members and then laid on the table to be taken up as a special order of business at the February meeting. Fifteen names were added to the membership list.



JAMES WHEELER
President of Gardeners' and Florists' Club of Boston

On the exhibition tables were some superb displays of flowers. The usual committee, Peter Fisher serving as chairman, made examination and report on the various entries, subject to final adjustment as to the form of award after the consideration of this question at the next meeting. An award of the second grade was made to Guttman & Weber for carnation Victory. Mr. Guttman, who was present, gave an account of the origin and history of this fine scarlet up to date and invited visitors to go and see it growing. To Cottage Gardens, awards of third grade for Robert Craig, scarlet, Ethel Ward, pink, Lieut. Peary, white, and President, crimson. Mr. Hamilton was present as representing Cottage Gardens and briefly recounted the good qualities of these varieties. Similar awards were made to Begonia Turnford Hall shown by Charles Sander, Carnation Red Lawson, from W. J. Palmer & Son, and an award of second grade was given to E. O. Orpet's sensational hybrid cattleya Suzanne. Mr. Orpet had a very interesting collection of his hybrids on exhibition. Other exhibits that received complimentary notice were some promising seedling carnations from Thomas Waldie, Ernest A. Wild, Backer & Co., and others; sweet peas from William Sim and lilies from Alexander Ogg. The latter were very remarkable. Mr. Ogg remarked that the bulbs, purchased from Farquhar, had been planted in September in 7-inch pots, and under no special care had averaged from eleven to fifteen flowers each spike, from which he had been cutting freely since January 1.

J. Woodward Manning then entertained the audience with a talk on Landscape Art, which we hope to publish in full, illustrated with a series of impressive stereopticon views, for which an enthusiastic vote of thanks was given.

It was voted that the Club extend an invitation to the American Carnation Society to meet in Boston in 1906.

Inaugural Address

In accepting gratefully the high honor which this Club has conferred upon me, I feel that if I can fill the position half as well as our retiring president has done, I shall have done well. When this Club had got into a condition where we could hardly call it a Club, when it seemed almost impossible to get a quorum at our meetings and our work had been practically dsicontinued, we elected J. A. Pettigrew as president. Our wisdom was soon apparent. By his wise leadership and untiring efforts he rallied what forces were left and brought in new recruits, and by his faithfulness and perseverence brought the Club up to its present efficient standard. I know I express the sentiment of this Club when I say we have not only learned to trust and respect him, but to love him. We all feel indebted to him for all he has done. As I look forward into the future there seems to be the promise of a very prosperous year. There is a very wide and useful field for us to work in, and if we will all stand together and fulfill the object of our charter, "to unite the individual interests of horticulture that they may better lift up and carry forward all that tends to advance the interests of its members," our Club is bound to prosper. We each want to feel that the future prosperity of this organization rests upon our own individual efforts. If you want to know

anything about our profession ask, or if you know, tell it. We ought to endeavor to increase the funds in our treasury. We can each do that by bringing in a new member and paying our own dues promptly, and help to make our meetings so interesting and attractive that no florist or gardener or anyone interested in floriculture can afford to remain absent.

I feel in awarding prizes we should have a different form of awards from those of the Mass. Hort. Society, so that growers and exhibitors would desire the awards of both societies, and that we should make our award so valuable that they will be sought after by all. We ought to have good exhibits here at every meeting. Each member should bring in something each time if possible.

I thank you, gentlemen, for the honor you have done me, and I hope you will never regret your choice. I again ask the hearty coöperation of every member, all working together to make this the banner year of our Club.

HORTICULTURAL SOCIETY OF NEW YORK

The Horticultural Society of New York met in the rooms of the American Institute on Wednesday night, January 11, to listen to a most instructive address by Dr. D. T. Macdougal on the subject of "The Origin of Species by Sports and Mutations." There was good attendance, but an extraordinary absence of those who are practically interested in the business of plant production. Doctor Macdougal has followed up the work of Prof. De Vries of Amsterdam who originated the theory of the mutation of species, and on Wednesday night he told the audience just what it meant, how it was to be observed, and pointed out the practical value in the production of new plants.

It was in 1590 that in a garden at Heidelberg a sport of the Celandine occurred which had cut leaves and otherwise differed from the ordinary plant. This plant had never been known to appear again except as a seedling from the original one. It was something quite distinct and quite permanent, coming true from seed. That was the first record of the mutation of species. Darwin had his attention attracted to the interesting phenomena of the sporting of plants, and wondered whether in some way that was not connected with the production of new species. He was put off the track of this idea by the persuasions of his friends, especially by Wallace, and further investigation was abandoned along these lines. It was about 1865 that Mendel made public the results of his work on the peas. Then followed the pangenesis theory of Darwin that each organ of the plant as it would finally develop was represented in the seed by a special cell or rather a gemmule — each leaf, each twig, each separate part was the product of a certain special division of the seed. The speaker paid a high tribute to the methods and to the honest investigations of Darwin. So great was the interest in Darwin and his work that from that time until recently, people ceased to study the problems of organic evolution and discussed Darwinism itself; they wrote books about Darwin, and later other books on the books about Darwin. It was in 1880 to 1890 that De Vries became interested in the problems that were before the world. He reasoned that the principle of natural selection was too slow to account for the development of new species. His first step was to take 100 plants, native and cultivated, and



MARCELLUS A. PATTEN
Vice-president Gardeners' and Florists' Club of Boston

watch to see what happened. Out of these it was observed that Oenothera Lamarckiana did not come true from seed. In 1887 he saw some plants of this in a potato field — thousands of them — some of which were unlike their parents. He gathered seed and sowed it, so the next year he had 50,000 seedlings out of which 334 did not agree with the parents and even differed among themselves. They belonged to ten or twelve types, however, and continuing the work he had some sixteen types after three or four years. By a reference to the plants which Dr. Macdougal had brought with him, he illustrated the appearance of fourteen distinct types in his own seedlings raised at the New York Botanical Garden. These were very distinct and varied in form of leaf, in size, and otherwise. Some of these had been identified as species.

There were no gradations among them. They did not show connecting links. Out of one hundred seedlings, three to five were mutants. The essential points of the mutation were these: that they come off without any connecting types. That they are, so to speak, side steps and not progressive developments from the parent. The third point — and it was a puzzle to the botanists — were the mutants going to exterminate the parent? It was hardly likely if we considered the small proportion of new forms. Ninety-five per cent came true. Figure that the species grows on year by year. O. Lamarckiana would yield, say, 200,000 seeds. Only five per cent are of new forms and they may not be adapted to the conditions. So it must take the new plant a very long time to get ahead. That species were developed by this sudden method was pretty clear if we thought of the age of the earth. It is not old enough to have allowed the development of all the species now found upon it by the slow method of natural selection. But natural selection accompanied the saltatory origin of species. New forms were developed, but only such as best fitted the situa ions survived. The others die off.

One must not think that Oenothera is the only plant showing mutations. Discontinuous variation appeared elsewhere, as in monstrous flowers, also the doubling of florists flowers and the singling of those that were double offered evidence of discontinuous variation. If it were wanted to see if a plant were mutating, get a pure species, get pure soil — he used steam sterilized soil — and grow the seedlings where they can remain undisturbed. Look carefully at the young plants and preserve every "unlike" form; weed out duplicates only, to avoid the charge of destroying the connecting links. This is, of course, the exact reverse of the garden culture practices. Dr. Macdougal exhibited also a mutant form of the native evening primrose (O. biennis); he had recognized one out of several thousand seedlings saved from the wild plants in the garden — but then, perhaps he was not keen enough to recognize all the variations. The mutants vary in succeeding generations but do not vary towards the parent, and the variation s greater in them than in the old species. In reply to a question the lecturer stated most positively that no permanent alteration in a plant had ever been brought about by conditions of cultivation. That new developments under cultivation were mutant forms and must be so accorded.

LEONARD BARRON

ANNUAL DINNER OF THE TARRYTOWN HORTICULTURAL SOCIETY

Sixty-three of the members and friends of the Tarrytown Horticultural Society sat down to dinner in the Florence Hotel, Tarrytown, on Wednesday, January 11. This is the sixth annual occasion of the kind held by the society, and the way the food disappeared, and the general expressions of approval, left no doubt that this was the crowning success. When the tables were cleared, President Francis Gibson introduced as toastmaster Ex-District Attorney Geo. C. Andrews, who in turn introduced the speakers of the evening in his usual happy mood. Among the principal speakers were Major Bright, Ex-Senator Charles P. McClelland, Councilor W. H. H. Ely, Councilor Charles V. Millard and F. R. Pierson. These gentlemen, all eminent horticulturists (for the time being at least), discussed horticulture from a flowery point of view until all present must have thought they had been reared in a veritable garden of Eden. The local press was well represented, and among the representatives of the horticultural press were Alexr. Wallace, J. Austin Shaw and J. H. Pepper. The Monmouth County, N. J., Horticultural Society sent a very able representation in Messrs. William Turner, Harry Kettle and George Yomans. The Dutchess County, N. Y., Horticultural Society was also ably represented by John Galvin and G. H. Haworth. Songs were rendered by Mr. John Whyte, and Mr. Alfred Greis of Brooklyn, N. Y., entertained the company by cracking jokes and giving several amusing recitations. Altogether a very pleasant evening was spent, and shortly after the hand of the clock had pointed the midnight hour, the company joined in the singing of "Auld Lang Syne."

Then each took off his several way,
Resolved to meet another day.

——— WM. SCOTT.

THE MADISON SMOKER

The annual smoker of the Morris County Gardeners' and Florists' Society, held on January 11, at Madison, N. J., was a great success in every way and marked another red-letter night in the history of its organization. Owing to an unfortunate confusion of dates, the out-of-town contingent was not numerous, as most of the New Yorkers had already promised to attend the Tarrytown Society's dinner which was held on the same night. The reason they went to Tarrytown was because that society is strictly temperance and so many of the "bunch" had gone on the "water-wagon" with the new year that they were evidently afraid to go out and tackle the Madison punch which, famed in song and story, was on hand as usual, seductive as ever and warranted to cure the blues. The "Three Musketeers," Messrs. Herrington, Totty, and Duckham to whom is entrusted every year the brewing of this weird and far-reaching compound, covered themselves with glory and were voted the Club certificate for their services.

Previous to the entertainment a short business session was held, when the newly elected officers took their stations as follows: President, John Heeremans; Vice-President, M. McNulty; Secretary, Edward Ryan; Treasurer, William Charlton. The treasurer's report showed a most encouraging state of affairs financially, no debts, and a substantial balance in the treasury.

A first-class vaudeville entertainment was provided, with loads of refreshments, liquid and solid, and the man that could not enjoy himself at that meeting must have lost all interest in life. The E. G. Hill Co. had kindly sent on a vase of their Richmond rose and also Rosalind Orr English. The first named was best liked and many were the words of praise bestowed on it. The flowers had travelled perfectly and, as shown at Madison, Richmond is stronger in growth than Liberty, with apparently every desirable attribute in a red rose. Fiancee was also shown splendidly by the Chicago Carnation Co., and as this variety is now so well known, there is little to tell about it.

Both the Richmond rose and the Fiancee carnation were awarded the society certificate, and Rosalind Orr English was highly commended.

It was after midnight when the meeting broke up and it closed with a hope that everyone would be on hand next year to again participate in the reunion. ——— T.

FLORISTS' AND GARDENERS' CLUB OF R. I.

On Thursday evening, January 12, at the Hotel Newman, Providence, R. I., a party of forty substantially-built and prosperous-looking gentlemen sat around the festive board and partook of a well-served and bountiful repast. The occasion was the ninth annual banquet of the Florists' and Gardeners' Club of Rhode Island and it was carried out in a style most creditable to the committee in charge and to the Hotel Newman.

Among the faces around the table appeared many that were familiarly reminiscent of the time, eight years ago, when this little body of whole-souled hospitable men acquitted themselves so well as hosts of the Society of American Florists. Providence has dealt kindly with these boys of Providence, for they look scarce a day older than they did that August evening when we sang with them and their guests from far and near, "Should auld acquaintance be forgot?" They are yet as they were then, "Jolly good fellows."

W. E. Chappell was introduced by President J. F. Schellinger as toastmaster, and he filled the difficult position with graceful ease. Everybody was called upon to speak and all gladly accepted the admonition of the toastmaster to "be brief." Among the visitors were Prof. Card of the Kingston Agricultural College, who being called upon, applauded the spirit of fellowship over all; Secretary Charles W. Smith of the R. I. Horticultural Society, who told a story, Thomas J. Grey of Boston, who gave a toast, Prof. Wheeler of Kingston, who regaled his audience with a comical tale of woe, and W. J. Stewart of Boston who spoke approvingly of the proposed Metropolitan Park System for Providence and advised that the Club should endeavor to have a practical horticulturist appointed on the commission.

Of the local speakers, M. Sweeney proved most dignified, T. J. Johnston most facetious, Charles S. Macnair most sympathetic, Farquhar Macrae most eloquent, James Hockey most comprehensive, William Appleton most persuasive, A. M. Rennie most appealing, J. D. Fitts most pointed, and James Dillon most concise. A silver gavel was presented to the retiring president, John Macrae, who responded in fitting words of acknowledgment. All agreed to repeat the experience next year.

NEW BEDFORD HORTICULTURAL SOCIETY

The second annual meeting of the New Bedford (Mass.) Horticultural society was held on January 10, and the reports of the officers showed that the society is in a prosperous condition, with a bright outlook for the year 1905. There are now more than 100 members, the number having doubled during the past twelve months. The financial report showed that the sum of $125 had been added to the treasury during the year 1904.

The members decided to have the annual supper on Tuesday evening, February 28.

The following officers were elected:
President — William Keith.
Vice-president — Frank C. Barrows.
Treasurer — William A. Gibbs.
Secretary — Joseph C. Forbes.
Assistant secretary — George Woods.
Executive Committee — Dennis Shea, James Garthly, H. August Jahn, Andrew J. Fish, George N. Borden.

LENOX HORTICULTURAL SOCIETY

The annual ball of the Lenox (Mass.) Horticultural Society will be held in the town hall on the evening of January 31. The committee in charge consists of F. Heermans, A. J. Loveless, William Woods, S. Carlquist, and Frank Butler. On the following evening Prof. Waugh of the Amherst Agricultural College, will deliver a lecture.

"You have waked me too soon, I must slumber again."

ST. LOUIS FLORISTS' CLUB

At the Club meeting last Thursday afternoon the members who attended spent a very pleasant afternoon relating holiday experiences, before the meeting opened. President Juengel, who was unable to attend the last meeting, was present, and twenty members attended, Vice-President Pilcher being the only officer absent. A committee consisting of Otto Koenig, Emil Schray, and Fred Meinhardt was appointed to revise the Constitution and by-laws and to report at the next meeting. A committee was also appointed to take charge of the annual carnation exhibition at the club-rooms on February 9 at 2 P.M., and the Club voted $50 in prizes for this exhibition. The committee, composed of J. J. Beneke, Fred Meinhardt, and Emil Schray is to have full charge. All blooms from outside of the city should be sent in care of C. A. Kuehn, 1122 Pine Street. The third committee is given a hard proposition, *i.e.*, to look into and advise as to the best plan to build a club-house to be used for meetings, exhibitions and entertainments for the families of Club members. It is suggested that one hundred members subscribe $100 each, and that a good location be looked for in the West End.

The fare to Chicago for the Carnation Society meeting will be $10 for the round trip on the certificate plan. Members who are going should report promptly to Mr. Beneke. A special sleeper has been provided for the members.

There are many delinquent members, and those who are not paid up by the next meeting will be dropped from the roll.

The trustees are requested to report at the next meeting the advisability of holding a chrysanthemum show next fall.

AMERICAN CARNATION SOCIETY

The meeting and exhibition of this society will be held in the Auditorium Hotel, Chicago, Ill., January 25 and 26.

Every one interested in Carnations is invited to come and meet with us.

Special rates of a fare and one-third, on the Certificate Plan, (which will be explained you by any ticket agent) has been granted from all points east of and including Denver.

The small sum of $2 makes you a member of the Society and pays one year's dues. This entitles you to exhibit any new or old carnation you may have to show.

The Auditorium Hotel can take care of fully 200 members at reasonable rates, and especially so where two will occupy the same room; this puts all under one roof — lodging, the meeting, and exhibition, and weather need not be taken into account.

SPECIAL NOTICE. — There are so many sports of Lawson coming into the field, that this Society would like, for the sake of uniformity and to avoid the introduction of the same variety under different names, to have every carnation grower who has a sport from Lawson, of any color, to exhibit the same at this meeting, and especially so if he intends placing it on the market.

Where the grower does not accompany the box, it should be marked as follows: "The American Carnation Society, Chicago, Ill. Care of P. J. Hauswirth, Auditorium Hotel."

A. HERR.

REPORT OF REGISTRATION

By Patten & Co., Tewksbury, Mass.

"Mikado" — Color, white overlaid with crimson, a seedling of 1902, cross of Gov. Roosevelt and Prosperity, style of growth like Gov. Roosevelt, size of blooms, three to three and one-half inches.

"Pink Patten" — Color, clear dark pink, a sport from Mrs. M. A. Patten.

ALBERT M. HERR, *Secretary,*
Lancaster, Pa.

The Boston contingent for the carnation meeting will leave over the Boston & Maine and Nickel Plate route on Monday afternoon, January 23. Mr. William Nicholson of Framingham, Mass., the pilot of the party has been confined to his home with a severe attack of grippe, but is rapidly recovering and has no doubt of his ability to make the trip at the time arranged for. He would like to hear from any New Englanders who would like to accompany the delegation and will be pleased to relieve them of all trouble regarding the procuring of certificates, etc., for reduced fare. The rate for the round trip from Boston to Chicago and return will be $27.35, exclusive of sleeping car accommodations. This rate allows of no stop off in either direction.

GREENHOUSES BUILDING OR PROJECTED

BRISTOL, R. I. — Samuel Kinder, four houses.

LAWRENCE, MASS. — A. H. Wagland, one house.

BIDDEFORD, ME. — James H. Robbins, house 20 × 100.

WHITMAN, MASS. — R. E. Moir, two houses, each 20 × 300.

WESTVILLE, CONN. — A. N. Farnham, house 150 feet long.

PARK RIDGE, ILL. — Emil Buettner. three houses, each 29 × 125 By Moninger.

HINSDALE, ILL. — Bassett and Washburn, six houses, each 28 × 575. By Moninger.

No less than fifteen new violet houses are projected in Rhinebeck, N. Y., for the coming spring.

Please send us the names of your Friends who might be interested in

Horti-culture

and we will Send to Each a Sample Copy

N. F. McCarthy and W. H. Elliott of Boston have gone on a cruise to Porto Rico and other southern points on the line of the Plant Line steamers. They expect to be absent about a month.

From a notice received this (Monday) morning it appears that the St. Louis Club is to have opposition. A meeting has been called by F. W. Ude, Jr., William Winter, E. H. Michel and E. G. Eggeling to growers only, for the purpose of organizing a Growers' Florist Club. This meeting is to take place on Thursday night, January 19. The circular reads that all retailers and wholesalers are barred from becoming members.

Experiments Made in Austria-Hungary, Italy, and Switzerland to Prevent the Formation of Hail



LOADING GUN

For the last few years there have appeared in European newspapers and agricultural publications occasional reports about experiments made, first on a small and then on a larger scale, to prevent the formation of hail by means of heavy shooting; and while in Switzerland this past fall I had occasion to inquire into the results of these experiments and to gather some information and printed reports, the perusal of which proved very interesting.

The belief that human ingenuity would be able to interfere with the creating capacities of destructive elements was shared by few, and ridiculed not only by the public in general, but even by scientists of high standing. Nevertheless, it is a proven fact that such a belief already existed centuries ago, for there are many old church bells in existence to-day which bear the inscription, "Fulgura frango" ("I scatter storm"), and the ringing of those bells producing sound-waves was credited with the power of preventing the formation of hailstorms.

The celebrated astronomer Arago reports that already in 1680 cannons were used to dispel hailstorms, and a century or so later a French marine officer, the Marquis de Chevriers, cannonaded approaching storms, as he was convinced from experiments made while in active service that cannonading would dispel storms and hail. He therefore kept some cannons for weather shooting on his estate in Maconnais, and after his death the people of that community kept it up, evidently believing in the effectiveness of the work, and in 1806 there were more than a dozen towns in that vicinity that followed his example.

The origin of hail is still obscure, but the scientists seem to agree that same is formed by certain sudden and intense atmospheric changes of temperature and through the existence of certain electrical conditions. It has been observed by all who have made this subject a study that seemingly a very strong local accumulation of electricity takes place previous to a hailstorm, which is discharged during the storm, but immediately before the hail begins to fall there is always a certain dull calm in the air, which bodes danger. This apparent stillness of the atmosphere represents according to the latest scientific findings, the epoch of hail formation. It is claimed that the crystallization of the damp atmosphere can only take place during a period of absolute calmness in the air. This seems to have been fully demonstrated through an experiment made by Professor Dr. Kreuschner in Darmstadt. He arranged two pole wires of a strong electrical current so that one entered a basin of water from below, reaching within near the surface of the water while the other was brought from above near said surface, without, however, touching same. Upon application of a strong current, which in order to complete the circuit had to span the short circuit, the water surface between the two wire ends began to recede, forming a small funnel out of which first small drops of water, and after a short time small hailstones, were thrown with great force. The least disturbance of the air, however, the moving of a hand, or even heavy breathing would at once stop the process of crystallization, and in place of hailstones he got rain drops. Similar conditions it is claimed exist a few minutes before the breaking of a hailstorm, only with the difference that the water is not below, but above, and that same is not present as a fluid, but as a vapor in a condition very close to condensation.

Assuming that these theories are correct, it becomes at once evident thas to disturb the calmness of the air preceding the breaking of a storm meant the prevention of the process of crystallization, the formation of hail, and this seems to have been accomplished quite successfully in several localities through cannonading with cannons especially constructed for this purpose. The honor to have modernized the old style of weather shooting, bringing it to the present state of usefulness and efficiency, belongs to Mr. Albert Stiger, Mayor of the small town of Windisch-Feistritz in Austria. The town is located between hills, the slopes of which are exclusively covered with vineyards, which represent the prosperity of the farming population in that vicinity. For years and years in succession this locality was visited by periodical hailstorms, which often destroyed everything. The good mayor set to work and succeeded in establishing a system of hail weather protection, which kept the territory over which he distributed his artillery free from hail for five years in succession, while the surrounding unprotected territory was visited as formerly by regular hailstorms. It seems that his fellow-citizens thought him a fit subject for an asylum for insane when he first started to introduce his artillery, and later on, neighbors outside the protected district wanted to sue him for driving all the hail over the line into their vineyards.



DISCHARGING GUN

Mr. Stiger started his experiments about 1895 and since then the system has been adopted in numerous localities in Austria-Hungary, Italy, and Switzerland, especially where vine culture is the principal farming industry, and the results have been more or less satisfactory. It is easily understood that each locality has its own peculiar weather conditions, which must be studied. The matter of protecting the crops of highly cultivated lands which form the main income of the population against destructive pests or elements possible to control, is clearly a partial duty of the government, for the prosperity of the people represents the prosperity of the nation. The governments of the different countries mentioned above have interested themselves in this matter and are assiting in the experiments and developments in this seemingly very promising field. It is not the purpose of this paper to go into a description of the construction of the cannons used for this purpose or the manner of handling them. There are several different kinds of cannons and they all have a funnel as shown in accompanying illustration. The main object of this funnel is to provide a vortex which will produce a cyclonic wave action of great intensity when the cannon is discharged. This artificially created wave rising to a great height creates a disturbing element which breaks the calmness of the atmosphere and so prevents the formation of hail. The cannons, as

they are called, are of different sizes, the size giving the best so far achieved results having a funnel of 13 feet in height and taking a charge of 120 grams, or about ½ lb. of powder. It is calculated that a cannon of this size will cover a territory of about one square kilometer (250 acres), or in other words, cannons of that size can be placed 3,200 feet apart. It is evident that one cannon alone will not be effective, but that there must be a number of stations of one cannon each established over a large territory, and they must be well served under a systematic and practical management, for it requires united action at the proper time to achieve the desired results. The cost for one cannon with complete outfit, including building, is about 400 francs ($80.00).

It is interesting to compare the cost of insurance against hail damage with the cost of protection. A farmer in a district known to be apt to be visited by hailstorms has to pay from 40–70 francs ($8.00–14.00) on 1000 francs ($200.00) hail insurance, while the cost of protection against hail by the herein described methods will not average more than 5 francs ($1.00).

In order to give this subject the attention which it seemingly deserves, it would require a much more exhaustive and detailed description than herein given. While the experiments have been generally successful, the matter must still be considered to be in an experimental stage, but the theories upon which they are based and the favorable results obtained seem to be of sufficient value to attract the attention of authorities and individuals interested in agricultural and horticultural pursuits. I for one would like to see the national government use part of the money wasted on free seed distribution on such experiments. We have right here in the Connecticut valley large risks in the tobacco culture, which would warrant them to be made on an extensive scale.

A Cordial Invitation to Call and Inspect their Establishments is Extended to the Visiting Brethren by All the Florists of Chicago.

The Gardener and Landscape Gardening

Read before the Gardeners' and Florists Club of Boston by J. Woodward Manning

There is a feeling among gardeners that landscape gardeners, landscape architects or landscape designers (as the various titles may be applied) are terms for a profession that is in a sense a rival to the work the gardener feels is his own. It is natural that such a feeling exists, but one must recognize that a landscape architect is not necessarily a gardener or that a gardener can of necessity have a training that will make him a landscape architect. Many gardeners do have so general a knowledge of plants, their uses, and capabilities that they are better adapted to handle the purely gardening features of the problems they may be in touch with, than many of the younger landscape architects whose knowledge may be more theoretical than practical, but such knowledge is not necessarily enough to meet the requirements of a landscape architect.

The landscape architect, in the fullest sense of the word, knows gardening and plants as one of the foundations of his art, but beyond this he must be familiar with engineering problems, such as road building, questions of drainage and sewerage, forestry problems, both from the point of view of landscape forestry as well as that of commercial forestry, grading problems in all phases; not, however, that he may be an expert in each and every one of these lines, but that he must know enough of their principles to be able to take advantage of adapting them to a finished design and to so combine them that there may be a harmonious application, and thus prevent the necessity of doing over twice what might be accomplished in one general operation. He must have a thorough knowledge of design based on theory and practice and broadened by extensive travel, to examine the best examples here and abroad. He should know enough of architecture to be able to judge of good taste and to know how to accent important architectural features or to be able to advise as to styles to be recommended; must familiarize himself with the requirements that must rule the proper placing of buildings, must be prepared to meet the problem of economy, and his practical experience should be broad enough to meet the problems of varied climatic conditions. These and many other questions that he must be prepared to meet promptly and efficiently involve problems which the gardener cannot have had practice enough in to make him fully efficient.

I can fully realize that a gardener may look with some disdain on the landscape architect who may recommend groupings of plants that do not group, kinds that will not succeed, and designs that fail utterly of their objects, and under such conditions his criticisms would be well founded. But this is due to the unfortunate selection of a bad advisor; on the other hand, it is well to beware of a too early criticism of the results of a good advisor; because his design is different from old established methods, it does not follow it may not be better than anything yet produced; because he uses common things, even wild natives from the woods, it does not follow that they may not be in better harmony and better adapted for their purpose than the use of more expensive exotic nursery stock; the late Frederick Law Olmstead was probably more responsible for the introduction of our common native shrubs and trees than any other man, and you all know how harmoniously he could group them and how well they fitted their purposes. Because the landscape architect does not make a perfectly straight avenue may be for the reason of gaining better grades or the saving of needless expense; because the avenue is direct rather than roundabout may be for the reason of no object being gained otherwise; that lawns may be restricted may be for your own indirect advantage in lessening the labor of their maintenance, but particularly because there may be distant views or naturally picturesque conditions more important than a lawn whose size could not counterbalance or attract the attention from these more important features; again, there may be good reason for making the lawn as large as possible even with its added first cost and later maintenance, because the breadth thus produced may be the only means of giving a proper feeling of extent to the grounds. An example of the principle of a small lawn in good keeping on a large estate is that of the grounds of General Weld at Dedham, Mass., where a very effective distant view in one direction is more important than any result that could be produced by making a lawn in the foreground. Examples of the broad lawn to give a feeling of size on a small place are common, yet sometimes this is carried to an excess, and border plantations may be out of scale. Where it is evident that such problems are being seriously studied by the landscape architect, the gardener cannot do better than to seek in every way possible to get into close understanding of that which the advisor intends, and strive to aid.

(To be continued next week)



A FIELD OF THE BENTHEY-COATSWORTH ASTER IN 1904

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

The U. S. Department of Agriculture is out with a circular letter to the leading seedsmen, asking for lists of surplus stocks with prices.

John Clark of Boston has succeeded M. B. Faxon as manager of the seed department of the George A. Weaver Co., Newport, R. I.

The annual convention of the American Packers' Canned Goods Association popularly known as the "Canners' Convention," is to be held at Columbus, O., again this year. It opens officially February 7, and closes on the 10th.

Many seedsmen do a large amount of business with the packers, and their representatives are much in evidence.

Catalogues Received

"Guide to Pansy Culture." William Toole, Pansy Heights. Baraboo, Wis. An interesting pamphlet.

Dreer's Garden Book, Philadelphia, Pa. Overflowing with good things, new and old. Four colored plates, one of which is a strikingly accurate representation of Rose Killarney at its best.

J. M. Thorburn & Co., New York. 104th Annual Catalogue of High Class seeds. Typographically worthy of the seeds and the house. The cover is a new departure, a masterpiece of elegant taste.

"Beautiful Grounds." Peterson Nursery Company, Chicago. Text and illustrations are full of inspiration for anyone who loves the garden, trees, flowering shrubs, and herbaceous plants. Send for a copy.

V. Lemoine et Fils, Nancy, France. Catalogue and price list for 1904–1905. Contains the usual number of interesting novelties sent out annually by this noted establishment. Plates of Deutzia myriantha (D. corymbiflora × D. parviflora), D. Vilmorinæ and Sander's Chrysanthemum frutescens Queen Alexandra. It is significant that names of Russian celebrities in the present war are perpetuated by being given to new varieties of Gladiolus hybridus Nanceianus, but no mention is made of the Japs.

Obituary

W. F. Will, foreman of the floral department of the Nunnally Company at Atlanta, Ga., died suddenly from heart failure on January 6.

John F. Derby, who for many years conducted a florist store on Bedford Ave., Brooklyn, N. Y., died at his home, 33 Bedford Ave., on January 9.

NEW CROP **FLOWER SEEDS**

ASPARAGUS P. NANUS. Greenhouse-grown, strictly new crop. 75 cents per 100. $6.00 per 1000.

ASTER QUEEN OF MARKET. For early flowering, separate colors and mixed. 20 cents per Tr. Pkt., 60 cents per oz.

PHLOX NANA COMPACTA MIXED. 40 cents per Tr. Pkt., $1.75 per oz.

SALVIA BONFIRE. 40 cents per Tr. Pkt., $2.50 per oz.

For complete list of Florists' Flower Seeds, see our Wholesale List now being mailed. ***Write for it.***

Henry F. Michell Co., Selected Growers and Importers 1018 MARKET ST. **Philadelphia, Pa.**

Just Picked from the Vines **Asparagus Plumosus Nanus** *Greenhouse Grown Seed*

Per 100 seeds, 75c.; per 1000 seeds, $5.00; per 5000 seeds, $22.50

From a specialist whose carefully grown, ***well matured seed*** has always given our critical Asparagus growers the most satisfactory results.

Per 100 seeds, 75c.; per 1000 seeds, $5.00; per 5000 seeds, $22.50

See our Flower Seed offer in last week's Horticulture

JOHNSON & STOKES, 217-219 Market St., PHILADELPHIA

Carnation Novelties

FOR 1905

*Can give **EARLIEST DELIVERY** on the following **GEMS OF THE SEASON**:*

CHICAGO WHITE AND FRED BURKI. *Two pure white candidates for First Place.*

FIANCEE. *The sensation of the year.*

PHYLLIS. *A Light Pink Beauty.*

THE CARDINAL. *The Future Scarlet.*

The above at $2.50 per doz.; $12.00 per 100; $100.00 per 1000.

RED LAWSON AND RICHMOND GEM *are Indespensable Scarlets — Two money makers. $2.00 per doz.; $10.00 per 100; $75.00 per 1000.*

DO NOT FORGET

Our Specialty — CHRYSANTHEMUMS

NATHAN SMITH & SON

ADRIAN, MICH.

M. H. WALSH

Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

Catalogue describes all the above

Don't neglect your advertising. Let us follow it up for you while you are busy filling orders.

Japan Bamboo Stakes IN LARGE QUANTITIES WRITE FOR PRICES

SUZUKI & IIDA, 31 BARCLAYS NEW YORK

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.

Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

Wholesale Agents for the United States

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J. M. THORBURN & CO., Cortlandt St., N.Y.

VAUGHAN'S SEED STORE, Chicago and N.Y.

PALMS, FERNS And Decorative Plants

A fine lot of Azaleas in great variety; always on hand, in flower from now until Easter

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias Dracaenas, Aspidistras, Marantas, Crotons etc., etc. : : : : : : : : : : : : : :

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & COMPANY

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES

Roslindale - Boston, Mass.

It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

In writing to advertisers, mention HORTICULTURE

LILY OF THE VALLEY

CHOICE BERLIN PIPS

Get our Special Prices

JOSEPH BRECK & SONS, Corp.

Seeds, Florists' Supplies, and Agriculture Hardware

47-54 No. Market St. - Boston, Mass.

In writing to advertisers, mention HORTICULTURE



This illustration has been reproduced from the front cover of "THE LEADING AMERICAN SEED CATALOGUE." The last page cover in nine colors shows the finest New Giant-flowered Pansies for 1905. The COLORED PLATES, painted at our Fordhook Farms also in nine colors, show the Choicest Tomatoes, New Parsley and Garden Peas; the most beautiful Novelties in Flowers, including an Unique New Nasturtium and "Surpassingly Superb" New Sweet Peas, for which we are recognized *headquarters*. Hundreds of illustrations from nature, besides new *photogravures* of views on our Farms and in our City Warehouses, make clear the accurate descriptions and our unequalled facilities for the careful conduct of *the world's largest mail-order seed-trade*.

FREE!

THIS ELEGANT BOOK of 178 pages is mailed FREE to all who intend to try BURPEE'S "Seeds That Grow"

To others the price is *ten cents*, which is less than cost per copy. If you have a garden, a postal card will bring a copy *by return mail*.

☞ We have some remarkable novelties for 1905 which will delight all progressive planters.

☞ If desired you can remit, with your application, 25 cents for **Eight Elegant New Sweet Peas, Five Finest New Nasturtiums, or Eight Brilliant Annual Flowers.**

☞ More than half a million planters already have BURPEE'S CATALOGUES FOR 1905.

You should have one: WRITE TO-DAY

Burpee's Blue List

This is mailed only to those who "plant for profit," and is the most complete of Wholesale Catalogues. Elegantly printed with photogravure illustrations, it is **A BOOK OF 104 PAGES** and gives practical information about all the **BEST SEEDS THAT GROW!**

Unlike most "seedsmen," we are **actual GROWERS** of seeds, having our own farms in Pennsylvania and New Jersey, supplemented by private contracts throughout America and Europe, subject also to our careful personal inspection. We have no branch establishments, and all orders must be addressed to

W. Atlee Burpee & Co.

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PHILADELPHIA

R. C. HAYDEN, Secr. and Treas. WILLIAM J. MUTH, Mgr.

The PHILADELPHIA CUT FLOWER CO.

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FANCY CARNATIONS, VALLEY and MIGNONETTE

We are Headquarters for

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All the Fancy
HIGH GRADE VARIETIES

THE LEO NIESSEN CO.

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by an

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NEXT WEEK

WATCH FOR IT!

Welch Bros.

Largest Wholesale
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SOLE AGENTS FOR

FOLDING BOXES

Durable Economical

15 Province Street

TEL. MAIN 6267 BOSTON, MASS.

Hardy Cut **Dagger and Fancy**

FERNS

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of **FLORISTS' SUPPLIES** In the country

H. M. Robinson & Co.

8 & 11 PROVINCE ST.

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To Out of Town Buyers

When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try

...BAKER...

THE Oldest Wholesale Florist in Philadelphia

Address: 1432 SO. PENN SQUARE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Jan. 17	ST. LOUIS Jan. 16	PHILA. Jan. 17	BOSTON Jan. 19
ROSES				
Am. Beauty, Fan. & Sp.	35 00 to 40 00	35.00 to 40 00	50.00 to 65 00	50.00 to 60.00
" Extra	..... to 20 00	15.00 to 25.00	40.00 to 50.00	25 00 to 40.00
" No. 1	8.00 to 12.00	6.00 to 12 00	25.00 to 35 00	12.00 to 20.00
" Lower grades	..... to	3.00 to 5.00	8.00 to 12 00	6.00 to 8.00
Bride & Maid — Fan. & Sp.	10.00 to 14.00	..... to 10.00	..... to 15.00	..... to 16 00
" " Extra	8.00 to 10.00	..... to 8.00	12.00 to 15.00	10.00 to 12.00
" " No. 1	4.00 to 6.00	5.00 to 6.00	10.00 to 12.00	6.00 to 8.00
" " Lower gr.	..... to	..... to 4.00	4.00 to 8.00	2.00 to 4.00
Liberty, Fancy & Special	..... to 15 00	..... to 10.00	30.00 to 35.00	20.00 to 25.00
" extra	8.00 to 10.00	..... to 8.00	20.00 to 25 00	12 00 to 16 00
" No. 1	4.00 to 6.00	5.00 to 6 00	12.00 to 15 00	6.00 to 8.00
" Lower grades	..... to	..... to 4.00	6.00 to 10.00	3.00 to 4.00
Golden Gate } Best	..... to 12.00	..... to 10.00	..... to 15.00	..... to .....
Ivory } Medium	8.00 to 10 00	5.00 to 8.00	..... to 10 00	8.00 to 10 00
Chatenay } Culls	4.00 to 6.00	3.00 to 4.00	..... to 6.00	4.00 to 6.00
CARNATIONS				
Fancy Class	2.00 to 5.00	4.00 to 5 00	4.00 to 8.00	3.00 to 4.00
General Class	2 00 to 3.00	2.00 to 3.00	2.00 to 4.00	2 00 to 3.00
Lower Grades	1.00 to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
VIOLETS				
Special	..... to	..... to 1.50	1.00 to 1.25	.50 to .75
General	.50 to 1.50	.75 to 1.00	.75 to 1.00	.35 to .50
Single	.35 to 1.00	.50 to .75	.50 to .75	.25 to .50
ORCHIDS				
Cattleyas	..... to	..... to	..... to 50.00	..... to 50 00
Cypripediums	..... to	15.00 to 20.00	12.50 to 15.00	10.00 to 12.50
BULBOUS				
Lilies	16.00 to 20.00	12.50 to 15 00	..... to 15.00	10.00 to 12.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	..... to 4.00	2.00 to 3.00
Roman Hyacinths	..... to 3.00	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00
Paper White Narcissus	..... to 3.00	..... to 3.00	2.00 to 3.00	1.00 to 2.00
Trumpet Narcissus	..... to	..... to	..... to 6.00	2.00 to 4.00
Tulips	..... to	..... to	3.50 to 4 00	2.00 to 4.00
Callas	..... to 12.50	10.00 to 15.00	12.50 to 15.00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	..... to	5.00 to 6 00	3 00 to 8.00	2.00 to 4.00
Sweet Peas	..... to	..... to .75	1.00 to 1.50	75 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.75 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	1.25 to 1 50	..... to .....
" Farleyense	..... to	..... to	..... to 10 00	..... to .....
Smilax	10 00 to 12 50	..... to 15.00	12.50 to 15 00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	35 00 to 50.00	35.00 to 50.00
" " bunches	..... to	..... to	35.00 to 50 00	35.00 to 50.00
" Sprengeri "	..... to	..... to	50.00 to 75.00	35.00 to 50.00
Stevia	..... to	..... to	..... to	..... to .....

BERGER BROTHERS **Roses, Carnations**

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

FANCY
Carnations
A STRONG LEADER WITH US
SAMUEL S. PENNOCK
THE WHOLESALE FLORIST OF PHILADELPHIA

Philadelphia Flower Market Report

Very little change is to be reported from conditions prevailing last week. Not quite so much stock being received and a slight improvement in prices, but business does not have the "snap" it should have at this season. Carnations move slowly, Roses fairly well, especially the better grades of Teas, long Beauties not going as freely as the medium grades. Liberty of excellent quality generally and selling well, Violets very sluggish and prices very low. White Violets hold their own, however, at $2.00 per 100. Orchids are doing fairly well, Cattleyas bringing reduced prices, Lily of the Valley fair, Paper White and Roman Hyacinths slow, Daffodils brisk, Callas not over-plentiful, Mignonette and other miscellaneous stock fairly abundant and going at normal rates, and White Lilac more plentiful and having a good demand.

BOSTON MARKET REPORT

The present week sees a general shortening up of the rose receipts and the increase in carnation product which is to be expected at this date. Violets are still refractory and move unwillingly, although the quality of those offered is very good. American Beauty roses are not up to the standard of quality. Yellow narcissi of very good grade are now coming in, and the first tulips are also in evidence, but in very limited quantity so far. The best that can be said of business in general is, that it is not above the normal.

FRED EHRET WHOLESALE FLORIST
Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.
1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

H. Bayersdorfer & Co.
50-56 North 4th Street
PHILADELPHIA, PA.
Florists' Supplies
BEST LINE IN THE COUNTRY

CHICAGO MARKET REPORT

The recent cold snap has shortened up the supply somewhat. We are enjoying an old-fashioned winter here, several nights recently having registered in the neighborhood of the zero mark. Still the days are bright and sunny and the receipts have not diminished sufficiently to establish any advance in values. Long-stemmed Beauties are still in supply, exceeding the call. Choice teas, especially white, are the premium item. Carnations arrive in large quantities each day, with prices less firm than heretofore. A good demand is experienced for the white varieties. At present writing a good city trade is had for the light, fresh supply, but a considerable holdover stock awaits the clearing-up process each evening. A good demand for orchids was created by the Charity Ball. Lily of the valley and violets also participated in this, but only the best grades of the latter were wanted and the larger bulk continues on the anxious seat. Tulips are more abundant and of better quality, and there is some fine white lilac in market. Lilies clean up, but callas are in over-supply. Ferns have advanced to $2.50 per 1,000, and all other greens sell well.

CHICAGO JOTTINGS

J. P. Degnan is laid up with the grippe.

Benthey-Coatsworth Co. have increased their office space at their salesrooms.

Deuson Bros., Galwood, Ill., have opened a stand on the Growers' Market 60 Wabash Ave., Chicago.

Michael Winandy, contractor and cut flower grower, has been forced by creditors into receivership. The liabilities are much over the assets. The largest claims are for lumber and glass.

At the meeting of the Chicago Florists' Club, H. M. Altick of Dayton, O., was the speaker of the evening. His address was in the interest of the Florists' McKinley Memorial Fund. This was well received. The Club resolved that all growers, retailers, and wholesalers contribute 20 per cent, 15 per cent, and 5 per cent, respectively, on all carnation sales towards above fund. An agreement was signed to this effect.

J. A. BUDLONG
37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty.....
WHOLESALE GROWER of CUT FLOWERS

ST. LOUIS MARKET REPORT

Roses not as plentiful as they were and prices holding out very well, but carnations, particularly the commou grades, are in heavier supply.

FRANK MILLANG
at the
Flower Growers' Market
55-57 W. 26th Street
NEW YORK
Telephone, 299 Madison Square
Open 6 A. M.

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

Violet and Carnation Growers
Will find a reliable market with
W. H. GUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

Geo. Saltford
WHOLESALE FLORIST
46 WEST 29th ST., - NEW YORK
Telephone 3393 Madison Sq.
Consignments Solicited

Chas. Smith
Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone : 902 Madison Sq.

Wm. Ghormley
57 West 28th St., NEW YORK
All Popular Roses and Carnations
Rhinebeck **VIOLETS** The Cream
Poinsettias, Lily of the Valley, Lilies, Hyacinths, Paper Whites, all Greens
ALL SELECT STOCK

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	NEW YORK Jan 17	BALTIMORE Jan. 16	BUFFALO Jan. 17	PITTSBURG Jan. 16.
ROSES				
Am Beauty, fan. and sp	35 00 to 50.00	..... to 50 00	50 00 to 60 00	40 00 to 50 00
" extra	25 00 to 30 00	..... to 40.00	25 00 to 40 00	25 00 to 35 00
" No. 1	15.00 to 20 00	..... to 25 00	10 00 to 15 00	15 00 to 20 00
" Lower grades	3.00 to 8 00	6.00 to 15 00	3.00 to 6 00	6 00 to 10 00
Bride and Maid, fan. and sp	12.00 to 15.00	..... to	12 00 to 15 00	15 00 to 18 00
" " extra	8 00 to 10.00	8.00 to 10.00	10 00 to 12 00	10 00 to 12 00
" " No. 1	4.00 to 6 00	6 00 to 8.00	6 00 to 8.00	6 00 to 8 00
" " Lower gr	2.00 to 3.00	4.00 to 5.00	2 00 to 5 00	3 00 to 4 00
Liberty, fan. and sp	20.00 to 30.00	..... to	12 00 to 15 00	20 00 to 25 00
" extra	10 00 to 12 00	..... to	10 00 to 12 00	12 00 to 15 00
" No. 1	6.00 to 8 00	..... to	6 00 to 8 00	6 00 to 10 00
" Lower gr	3 00 to 4.00	..... to	3 00 to 5 00	.... to 4 00
Golden Gate, Ivory, Chatenay — Best	12.00 to 15 00	..... to 10.00	6 00 to 8 00	12 00 to 15 00
Golden Gate, Ivory, Chatenay — Medium	6.00 to 8.00	6.00 to 8 00	4 00 to 5 00	8 00 to 10 00
Golden Gate, Ivory, Chatenay — Culls	2.00 to 3.00	4.00 to 5.00	2 00 to 3 00	4.00 to 6 00
CARNATIONS				
Fancy Class	4.00 to 6.00	3.00 to 4.00	4 00 to 5 00	3 00 to 4.00
General Class	2.00 to 3 00	2.00 to 3.00	2 00 to 3.00	..... to 2 00
Lower Grades	1.00 to 1 50	1 00 to 2 00	1.00 to 1 50	.... to 1 00
VIOLETS				
Special	.50 to .75	..... to	1.00 to 1.25	..... to 2 00
General	.25 to .50	.50 to .75	.50 to .75	..... to 1 25
Single	.30 to .75	.50 to .75	.50 to 1 00	.35 to .50
ORCHIDS				
Cattleyas	25.00 to 35.00	..... to	..... to	..... to .....
Cypripediums	8.00 to 12.00	..... to	..... to	..... to 15 00
BULBOUS				
Lilies	6 00 to 8.00	10.00 to 12.50	..... to 15 00	..... to 20 00
Lily of the Valley	1 00 to 4.00	..... to	3 00 to 5 00	3 00 to 4 00
Roman Hyacinths	1 00 to 2 00	2.00 to 3 00	2.00 to 4 00	3 00 to 4 00
Paper White Narcissus	1.00 to 2 00	2.00 to 3.00	2.00 to 3 00	3.00 to 4.00
Trumpet Narcissus	3 00 to 4.00	..... to	..... to	..... to .....
Tulips	..... to	..... to	3 00 to 4.00	3 00 to 5 00
Callas	8 00 to 10.00	6.00 to 10 00	8 00 to 10 00	12 00 to 15 00
MISCELLANEOUS				
Mignonette	2.00 to 8 00	3 00 to 4 00	3 00 to 5 00	2 00 to 4 00
Sweet Peas	..... to	1.00 to 1.50	.50 to 1.00	.35 to 1 00
Adiantum Cuneatum	.50 to 1.00	..... to 1 00	.75 to 1 00	.75 to 1 00
" Croweanum	..... to 1.50	..... to	..... to 1 50	..... to 1 50
" Farleyense	5 00 to 10 00	..... to	8 00 to 12 00	..... to .....
Smilax	8.00 to 12 00	15 00 to 25 00	..... to 15 00	..... to 15 00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50 00	40 00 to 60 00	..... to 50 00
" " bunches	20 00 to 35.00	25.00 to 50.00	20 00 to 35 00	30.00 to 40.00
" Sprengeri "	15 00 to 25.00	25.00 to 50.00	20 00 to 35 00	..... to .....
Stevia	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	..... to	..... to .....

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

CUT TULIPS AND NOVELTIES
PITTSBURG CUT FLOWER CO., Ltd. 504 Liberty Ave. PITTSBURG, PA.

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

If you have something worth offering to the best buyers, an advertisement in these pages will do the business.

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 W. 28th St., New York
Tel. 2559 Madison Sq.

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
43 West 30th Street, New York City
Telephone No. 325 Madison Square.

"Nothing except the mint can make money without advertising." — Gladstone.

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

NEW YORK MARKET REPORT

At present writing roses are selling well and carnations are doing better than last week. Violets are still abundant and surplus stock is moved only at low figures. Bulbous stock is in greater supply than can be absorbed at regular rates and concessions have to be made to clear up.

The general tone of the market is improved.

BUFFALO MARKET REPORT

Business in general is very quiet.

Carnations, roses, and violets very plentiful, and sell at very low prices at times in order to move the stock from the market, and at that there is a good deal of waste at present.

Ever since New Year's business has been very quiet; more flowers of all descriptions than buyers.

LOUISVILLE MARKET REPORT

Business conditions last week were a little disappointing, but next week a few good orders will be realized. The weather has been very cold, thus keeping a good many people in. The supply of carnations is about equal to the demand. They are of very good quality, however the demand is a little slow. Roses are of good quality, and can be had in unusually good quantity. The demand is satisfactory. Mignonette, lilies of the valley, violets, sweet peas, etc., are coming in in fair quantities, the demand and quality both being about satisfactory.

The preliminary premium list of the Kentucky Society of Florists' Chrysanthemum Show is nearly ready. It is thought that a bowling club will be formed in the local society, the plans being nearly completed.

There will probably not be over four members to visit the carnation meeting.

Mr. Ralph M. Ward of New York was a recent caller.

NEWPORT MARKET REPORT

The demand for flowers has been light for the past week as might be expected, considering the abnormal business of the holidays and adding thereto the absence of any notable event. The dealers are not complaining, however; they have based their call pretty accurately on what the demand has been, and by so doing very little stock has been wasted and good prices have been maintained. The number of plants unsold during the holidays is much smaller than usual. This is very gratifying. There are not many violets grown here now, hence fewer are sold than usual.

THE CRAIG PROPOSITION

The meeting of the creditors of Robert Craig & Son, on January 12, to consider the firm's offer of a composition, was a harmonious one and indicated a desire to grant anything in reason to enable the Craigs to continue the business with a clean slate. About 65 per cent of the business indebtedness appeared to be represented, and the feeling was unanimous that the fifty per cent offered was the most that could be expected under any circumstances and probably more than would be realized under a forced liquidation. The assignee was not present at the meeting, and his good judgment in that respect is commendable, as it was entirely a matter for the Messrs. Craig and their creditors, and did not affect the court mandate under which Mr. Burton acts as trustee for the creditors.

F. R. Pierson was one of the strongest advocates among the large creditors for an acceptance of the composition. Most of the smaller holders from $100 to $1,000 each quickly followed his lead and a resolution pledging support of the idea was unanimously passed, as was one urging all unpledged creditors to follow suit on or before February 1st, notice to be sent informing them of the general feeling. The resources to ensure the payment of the composition are to come from cash in bank and good book accounts and the earnings between now and June 15 next, with the addition of the price of the plant as a going concern to be sold to a corporation to be known as the Robert Craig Company. A number of lawyers were present representing various interests, and most of them had a try at picking holes in the proposition; but notwithstanding this array of legal talent, no better scheme for securing the creditors was developed and no flaw was found in the terms of the Craig offer.

Daniel C. Donoghue acted as counsel for Messrs. Craig and bore the brunt of explaining the numerous fine points brought up by the opposing attorneys. He took the manly ground of at once admitting all the weak points of the situation, glossing nothing, and talking straight out, which in a meeting of keen business men is always the best policy.

WHOLESALE DEALER IN GALAX LEAVES

Very best galax leaves gathered fresh from the woods — can supply 1,000 or 1,000,000, green or bronze. It will pay you to write me. Good stock, low prices, quick shipments. Telegraph orders a specialty. Wholesale trade supplied, but if your wholesaler does not handle my stock, write direct to me and get fresh galax, large or small leaves, the genuine waxy gloss color that makes galax leaves beautiful and which cannot be obtained except on fresh leaves just picked from the native woods. I can compete with any one on earth. Cold storage orders booked now for future delivery. Let me have your orders for immediate use now and you will start the NEW YEAR RIGHT.

E. H. HITCHCOCK, Glenwood, Mich. Established 1896. References: Dunns or Bradstreets, or Union Bank, Jackson, Mich.

HIGH GRADE

Southern Wild Smilax

(From a case to a carload)

At a moment's notice. Write, Wire or 'Phone orders to

Prices Right. E. A. BEAVEN, Evergreen, Ala.

FLATBUSH IN FRAY, FROLIC, AND FEAST

In accordance with time-honored custom, the ornamental bowlers of Flatbush assembled at the alleys on Thursday evening, January 12th, each with a bulky package under his arm, to participate in the annual bowling for choice of unseen prizes. The fact that the bowlers numbered thirteen did not in any way affect the hilarity of the occasion, and it was far into the night before the diversified pastimes of this merry event came to a reluctant close.

The scoreboard showed the following figures when they got through: —

Siebrecht	145	164	159
Zeller	146	115	123
P. Dailledouze	98	136	159
H. Dailledouze	149	166	165
Schmutz	147	141	188
Morrison	97	108	77
Mellis	189	169	180
Bennett	76	100	110
Shaw	110	150	126
Butterfield	128	117	157
Riley	157	135	196
Scott	132	—	175
Wocker	161	—	133

The onslaught on the prize box followed in order of merit, and when the wrappings had been removed, trophies were disclosed as follows: —

Riley, a stag-horn smoking set; Schmutz, three bottles of lemonade; Mellis, silver smoking-set; Scott, oak smoking-set; H. Dailledouze, stein; Siebrecht, briar pipe; P. Dailledouze, stein; Butterfield, box of cigars; Wocker, vase; Shaw, a bottle of (not milk); Zeller, muffler; Morrison, walnut smoking-set; Bennett, box of cigars.

"Oft expectation fails, and most oft there
Where most it promises."

NEW YORK VS. HOBOKEN

The New York Florists' Club bowlers had a set-to over at Hoboken with the sports of that thrifty neighborhood. Nearly thirty were present. A good dinner was put out of sight and all had a glorious time. Scores were recorded as follows:

New York Regulars

Traendly	156	130	154
Siebrecht	126	122	171
Fenrich	106	94	109
Burns	154	146	170
Kessler	120	141	114
Lang	187	173	186

New York Reserves

Hart	128	112	
Vocke	117	176	
Buckholtz	132	103	
Shaw	124	184	
Butterfield	152	143	
Bohler	69	126	
Eicke	108	90	

Hoboken Regulars

Fisher	109	92	151
Hansen	150	140	127
Dietz	109	157	104
Mende	121	115	113
Otte	195	142	139
Manda	133	180	168

Hoboken Reserves

Birnie	108	116	
Garreau	124	116	
Bauman	100	167	
Hansen	136	111	
Stern	94	71	
Limbrecht	—	104	

PERSONAL

W. N. Crane of Rhinebeck, N. Y., was married to Miss E. A. Shaffer on January 14.

Alexander Mead of Greenwich, Conn., has been critically ill, but is now on the way to recovery.

Roland Messenger, for seven years with G. R. Simonds of Barre, Vt., has resigned to take a position in charge of a floral establishment in New Bedford, Mass.

George Melrose of North Bellingham, Mass., was badly injured in a collision between an electric car and a wagon he was driving on January 6. The horse was killed.

Visiting Boston this week. Mr. and Mrs. Harry Bayersdorfer, Philadelphia, Pa.; R. E. Hannaford, Portsmouth, N. H.; E. J. Fancourt, representing S. S. Pennock, Philadelphia, Pa.

Special Cheap Offer of Florists' Orchids

We want room for large importations

CYPRIPEDIUM INSIGNE: 5000 established unflowered growths, $8 per 100; $75 per 1000.

CYPRIPEDIUM CALLOSUM: 1000 established unflowered growths, $20 per 100.

CYPRIPEDIUM LAWRENCEANUM: 1500 established unflowered growths, $25 per 100.

DENDROBIUM FORMOSUM GIGANTEUM: The florist's white orchid. Established plants, 8 to 10 bulbs, $9 per 12; $70 per 100.

VANDA CŒRULEA. The florist's blue orchid. A rare opportunity. Established plants, 10 to 12 leaves, $15 per 12; 14 to 18 leaves, $22 per 12. All clean, healthy, perfect plants.

For other quotations, see our catalogue; to be had from

Julius Roehrs' Exotic Nurseries, Rutherford, N. J.

Among the little-known plants worthy of more general cultivation is Pandanus pacifica, which should make a durable and popular house plant. The foliage is short and broad, in the way of Dracæna fragrans, and of a dark polished green. It produces offsets abundantly and is a ready propagator.

ORCHIDS

We are headquarters for Orchids in the United States If you want Orchids for pleasure or profit, we respectfully solicit your orders. Catalogue on Application.

LAGER & HURRELL

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SUMMIT, N. J.

CUT FLOWERS
NOVELTIES
AND FANCY GRADES
Choicest Stock in New York Market for Special Work
Wholesale Rates
Thomas Young, Jr.
43 West 28th Street *New York City*

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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Established 1887 Tel. 167 Madison Sq.
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Always Reliable for Flowers Consigned or ORDERS Given
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Write for Market Prices on Flowers
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THE Eighteenth Annual Dinner of The New York Florists' Club, will be held Saturday, February 4th, 1905, at the St. Denis Hotel, Broadway and 11th Street, at 7.30 P. M.

Mr. Thomas Baker will be present with his staff of entertainers, and an excellent program has been arranged.

Indications point to a large attendance, and members are requested to send their acceptances to the Committee at once to facilitate its work in making final arrangements.

The price of tickets is $5.00 each.

Committee: LAWRENCE HAFNER, CHAS. B. WEATHERED, WALTER F. SHERIDAN.

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
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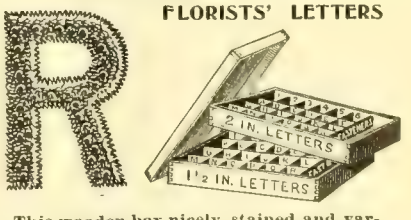
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For ROSES, CARNATIONS
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MANUFACTURERS OF
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, 4. Fastener with each letter or word.
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84 Hawley St., BOSTON, MASS.

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ASPARAGUS PLUMOSUS SEEDS.

H. F. Michell Co.,
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Johnson & Stokes,
217–219 Market St., Philadelphia.
Greenhouse grown seed.
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ASTER SEED.

Benthey's White. Benthey's Pink. Trade pkgs., $1; ¼ oz. $4.50; ½ oz., $2.50; oz., $8. Benthey-Coatsworth Co., 35 Randolph St., Chicago.
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BAMBOO STAKES.

Suzuki & Iida,
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J. M. Thorburn & Co.,
36 Cortlandt St., New York
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BULB FLOWERS.

W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all Bulb Flowers at Market Rates, all season through.

CANNAS.

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CARNATIONS.

Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
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Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
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Best introduction of the season.
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Unrooted Cuttings.
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Robert Craig, Lieut. Peary, Ethel Ward, The President, White Lawson, and all standard varieties. Rooted Cuttings

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Patten & Co.,
Tewksbury, Mass.
Rooted Cuttings of all choice varieties.
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Nathan Smith & Son,
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Chicago White, Fred Burki, Fiancee, Phyllis, Cardinal, Red Lawson, and Richmond Gem.
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Welch Bros., 15 Province St., Boston.
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L. Baumann & Co.,
76, 78 Wabash Ave., Chicago.
Send for Catalogue.
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Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.
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GRAPE VINES, HOTHOUSE.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Strong Planting Canes, all best sorts, each $3.50.
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GREEN GOODS.

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Hitchings & Co., 233 Mercer St., New York, N. Y.
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Hotbed Sash and Greenhouse Building Material. Send for Catalogue.
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615 & 621 Sheffield Ave., Chicago.
Hotbed sash, cypress and wash red cedar.
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John C. Moninger Co.,
111–125 Blackhawk St., Chicago.
Hotbed sash and construction lumber.
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Adam Schillo Lumber Co.,
Weed & Hawthorne Aves., Chicago.
Hemlock, pine and pecky cypress. Cedar posts
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HARDY FERNS AND SUPPLIES.

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HARDY HERBACEOUS PLANTS.

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HELP.

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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
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Hitchings & Co., 233 Mercer St., New York.
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Kroeschell Bros. Co., 47 Erie St., Chicago.
Manufacturers of the Kroeschell Boiler, the Great Fuel Saver.
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August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
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R. M. Ward & Co., New York. Plants and Bulbs.
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E. H. Hunt, 76–78 Wabash Ave., Chicago.
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LILY BULBS.

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LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
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Johnson & Stokes, 217–219 Market St., Philadelphia.
High Grade Pips the year round.
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Wm. Hagemann & Co., 55 Dey St., New York.
German Lily of the Valley.

MANETTI STOCKS.

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Neostyle Co.,
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NICOTIANA SANDERÆ.

Sander & Sons, St. Albans, Eng.
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $ 50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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ORCHID FLOWERS.

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PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.
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POTATO, NOROTON BEAUTY.

J. M. Thorburn & Co., New York.
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Kaiserin Roses. Robert C. Pye, Nyack, N. Y.
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W. H. Salter, Rochester, N. Y.
For page see List of Advertisers.

Rose Richmond, per 100, $30; per 1000, $250. E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
For page see List of Advertisers.

John Breitmeyer's Sons, Detroit, Mich.
Rose La Detroit. Booking orders for early delivery. Send for prices.
For page see List of Advertisers.

New Rose Wellesley. — John N. May,
Summit, N. J.
For page see List of Advertisers.

ROSES GRAFTED.

Montrose Greenhouses,
Montrose, Mass.
All the best varieties.
For page see List of Advertisers.

Bassett & Washburn,
76 Wabash Ave., Chicago.
For page see List of Advertisers.

SCOTT FERN.

John Scott,
Keap St. Greenhouses,
Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers.

Thos J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

George C. Watson, Juniper & Locust Sts., Philadelphia, Pa. Forcing Tomatoes. Forcing Lettuces. Forcing Radishes.
For page see List of Advertisers.

Arthur T. Boddington, 342 W. 14th St., New York. Gloxinias. Tuberous Begonias, etc.
For page see List of Advertisers.

Johnson & Stokes,
217–19 Market St., Philadelphia.
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H. F. Michell Co.,
1018 Market St., Philadelphia.
Aster Queen of Market. Phlox nana compacta. Salvia, Bonfire.
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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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W. Atlee Burpee & Co.,
Philadelphia.
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A. B. Howard & Son,
Belchertown, Mass.
Verbena Seeds.

Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston.
Cyclamen and White Globe Stock.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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E. H. Hunt,
76 & 78 Wabash Ave., Chicago.
Carlson Improved Asters.
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SHEEP MANURE.

Robert Simpson, Clifton, N. J.
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STEAM TRAP.

E. Hippard,
Youngstown, O.

SOUTHERN SMILAX.

E. H. Hitchcock,
Glenwood, Mich.
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E. A. Beaven,
Evergreen, Ala.
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SULPHUR BLOWER.

McMorran & Co., Chicago.
Peerless Sulphur Blower.
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VENTILATING APPARATUS.

Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

Pierson-Sefton Co., West Side Av., Jersey City, N. J.
See outside cover page.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
See outside cover page.

Foley Mfg. Co.
471 W. 22d St., Chicago.
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WAXED PAPER.

H. P. Smith Paper Co.,
1334 1st Nat. Bank Bldg., Chicago.
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WHOLESALE FLORISTS.

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E. H. Hunt, 76–78 Wabash Ave., Chicago.
J. A. Budlong, Chicago.
Chas. W. McKellar, Chicago.
Wieland & Risch, Chicago.
Chas. Millang, New York.
Welch Bros., Boston.
Frank Millang, Flower Growers' Market, 55–57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Geo. Saltford, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
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W. F. Sheridan, New York.
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E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York.
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
Leo Niessen Co., 1217 Arch St., Philadelphia.
J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S. Pennock, The Wholesale Florist of Philadelphia.
Fred Ehret, 1403 Fairmount Ave., Philadelphia. Established 1890.
Wietor Bros., 51 Wabash Ave., Chicago. Wholesale Flower Growers.
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WIRE.

H. F. Littlefield, Worcester, Mass.
For page see List of Advertisers.

Thorburn's Bulbs

Areca Lutescens Seeds

$3.00 per 1000

Lily of the Valley, pips and clumps
Lilium Auratum and Speciosum, all sorts

The Great New Potato
NOROTON BEAUTY

All who issue catalogues should not fail to include it. Descriptive circular on application.

J. M. THORBURN & CO.
36 Cortlandt St. New York

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

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ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

BULBS

HORSESHOE BRAND

and **PLANTS**

Ralph M. Ward & Co.
17 Battery Pl. New York

NEW DAISY

Queen Alexandra

We are now booking orders for delivery during the latter part of February for this charming new form of Chrysanthemum Frutescens or Paris Daisy, an introduction from South Africa, and a plant which should prove desirable both as a cut flower as well as a pot plant.

The illustration shows three forms of flowers which appear on the same plant. The double and semi-double form are not unlike an Anemone-flowered Chrysanthemum.

PRICE:

20c. each, $2 per doz., $15 per 100



HENRY A. DREER, Philadelphia, Pa.

In writing to advertisers, kindly mention HORTICULTURE

Quality Seed Bulb Plant S

SEND FOR CATALOGUE

Arthur T. Boddington
342 West 14th Street *NEW YORK*

W. W. RAWSON & Co. Arlington Tested SEEDS BOSTON MASS.

RAWSON'S

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SEEDS For the Florist.

Catalogues Mailed Free.

W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square BOSTON

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts Leading Machines
32 So. MARKET ST., BOSTON

SPECIAL OFFER

A FEW THOUSAND FIRST SIZE

Double Von Sions

At $9.00 per thousand while they last.

Best English Cyclamen Seeds

In named varieties, 50c. pkt. $1.25 per 100 seeds.

Boston White Globe Stock

Best for inside growing. Pkt., 10c.; large pkt., 50c.; ounce, $5.00.

SCHLEGEL & FOTTLER CO.
26 & 27 So. Market St., Boston, Mass.

The Best New Plant of the Year!

Nephrolepis Piersoni Elegantissima

PRICES:—$2\frac{1}{4}$-inch pots, $9.00 per doz; 50 plants at 60c each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each
LARGE PLANTS READY FOR IMMEDIATE USE—5-inch pots $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

F. R. PIERSON CO.
Tarrytown-on-Hudson NEW YORK

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Anything that can be Typewritten, Handwritten, or Drawn, can be duplicated hundreds of times on the New

No. 6 Rotary Neostyle

Price $30.00

The machine can be used for printing circular letters, price-lists, descriptions of Plants, Flowers, etc. Works automatically. Liberal allowances made for old forms of duplicators. Sent on trial.

Catalogue free upon request.

NEOSTYLE COMPANY

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36 COLUMBUS AVE.
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11 South Street
Corner Summer
Boston

Telephone 1944-4 Oxford

Outdoor and Architectural Views only.
Country Estates Photographed.
Special attention given to interiors of Greenhouses and Outdoor Gardens.

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OUTDOOR ART AND CRAFT

John Thorpe has submitted plans to the park commissioners of La Crosse, Wis., for the improvement of Myrick Park. They have been accepted with much favorable comment.

State Nursery Inspector Fernald has reported to the Massachusetts Board of Agriculture, at the annual meeting, that the gypsy and brown-tail moths are extremely abundant in several nurseries. He said: "It is certain that at some time an egg mass will be overlooked and this pest be sent out on stock unless fumigation to all stock in nurseries where the gypsy moth is found be made compulsory. The brown-tail moth is almost as dangerous a pest as the gypsy moth; is present in many more of the nurseries, and during the earlier part of the inspection season is harder to find."

A bill has been introduced in the Massachusetts legislature, on the petition of Mayor Eastham of Lynn, to authorize and empower that city to enter upon private land and clear all trees and shrubs thereon of the brown-tail and gypsy moth, or other tree or shrub-destroying pests, and charge the same to the owner of the land, provided, however, that that city shall first give notice in writing to the owner that he must, within a reasonable time, clear his land himself, and provided further, that the act shall not apply to owners of single parcels of unoccupied land of more than one acre in extent. The act is to take effect upon its passage.

The proposed encroachment on the parks of New York City by the construction of an extension of the elevated railroad in Bronx Park was brought before the regular meeting of the Horticultural Society of New York at its regular meeting held in the rooms of the American Institute on Wednesday night, and the following resolutions were unanimously adopted.

RESOLVED — That the Horticultural Society of New York hereby records its emphatic protest against the invasion of Bronx Park by any railroad on or above its natural surface, and calls on all who are sincerely in earnest for the preservation of parks for the people to oppose the plans now being considered by the Rapid Transit Commission.

RESOLVED, — That inasmuch as it is understood that the act of vandalism contemplated by the engineers of the Rapid Transit Commission can not be accomplished without further legislation, a committee be appointed with power to oppose such legislation, in case the Rapid Transit Commission seeks to obtain the authority to carry out this indefensible project.

Mr. Frank Hamilton, whose portrait appears herewith, is a man who has solely by his own industry and application worked himself up to a high place in the estimation of all with whom he has been associated. His first experience, horticulturally, was as a boy in the employ of Mr. F. R. Pierson



FRANK HAMILTON

at Tarrytown, N. Y. He had there an extended training in the rose-houses and the nursery and as a travelling salesman. Afterwards he was connected with the park department of New York City for seven years, and for the past three years has been head gardener of Bronx Park, a position for which he proved himself by his comprehensive knowledge of gardening, his earnestness energy, and geniality, to be eminently fitted. He had here charge of the planting as well as the construction work, with 800 men under his charge, and built ten miles of roads and walks in one year, besides doing an immense amount of work in clearing up old land and improving small parks. As noted in a previous issue of HORTICULTURE, Mr. Hamilton has resigned from his position to take up the management of the nursery department of Cottage Gardens. He goes with the best wishes of the park authorities and a host of friends.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE

One Upright Steam Boiler, 60 inches high x 32 inches diameter, capacity 1000 Sq.ft radiation, complete with all trimmings and castings at a bargain. We also carry a complete line of pipe and fittings and would be pleased to quote you on above.
RITCHIE HEATING CO.
483 Lincoln Avenue, Chicago, Ill
Two 'Phones, North 1394, Dearborn 6774.

SITUATION WANTED as gardener or assistant on private place; English, age 25, best of reference.
SAMUEL GRIGG, New Hamburg, N. Y.

SITUATION WANTED - By married man as working foreman, A 1, grower of cut flowers and bedding stock. High grade carnations a specialty. Good references. Or would lease greenhouses of 10,000 to 15,000 feet, with privilege of buying same. Address "I." Care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED — Good position in high-class Flower Store in large Western City for a No. 1 Store Man and Decorator. Address "W. L." Care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — By first-class Carnation Grower, willing and able to fill position of responsibility. Address "W. J." Care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — By young man, good experience with all kinds of plants, flowers and hothouse fruits. Good references, private or commercial. Address "A," Care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — As first assistant on first-class, private place where orchids, palms and roses are grown. Single, 28. Experience practical and theoretical in general stock. Address, "E. L. R." Care HORTICULTURE, 11 Hamilton Place, Boston.

Plant your advertisements here. It is good ground and will yield famously.

ROSES FOR SPRING BLOOMING

The proper sorts. Clothilde Soupert. General Jacqueminot, Ulrich Brunner, La France, Magna Charta, Crimson Rambler, etc.; fine field-grown plants that have never been forced, suitable for 5-in. pots, at 7c.; larger for 6-in., at 12c. Crimson Rambler, XXX, long tops, 20c. Large flowered Clematis, finest purple, lavender, white and red sorts, 2 year at 18c.; 1-year at 9c. Hydrangea pan. grand., fine bushy plants, 8c Other shrubs, etc., in cellar, priced on application. Packing free for cash.
W. H. SALTER - ROCHESTER, N.Y.

W. FROMOW & SONS, Bagshot, England

Extensive Growers of Hardy and Decorative Nursery Stocks, in extra selected grade. Our GOLDEN PRIVETS and RETINOSPORA, in sorts, are extra fine at reasonable cost. Address for trade list, our American agents:

AUGUST RÖLKER & SONS, *31 Barclay St., New York P. O. Box 752*

Greenhouse Glass Prices are Advancing

Call at our store, or send us a small sample order, to see the superior makes of glass we sell at Lowest Prices

STANDARD PLATE GLASS CO., Boston, Mass.
26-30 Sudbury St. On the Corner 61-63 Portland St.

The Glass Situation

One of the leading glass concerns in the country reports the glass situation at the present time is in such shape that it is certainly desirable for every one contemplating building this spring to get their orders in very shortly. Never in the history of the business in this country have inquiries been so numerous for glass as they have the past few weeks. Stocks all over the country have been lower than at any time for the past ten or twelve years, and with the large amount of building all over the country and the greatly increased consumption of glass for greenhouses and other purposes, there is every indication that the supply made by the manufacturers throughout the country this year will hardly be equal to the actual demand.

At a meeting of the Executive Board of American Window Glass Manufacturers' and Jobbers' Association on the 11th of this month, an advance was made which will be followed undoubtedly by a further advance within the next month, and everything considered, we feel perfectly safe in advising our patrons that they can make no possible mistake in covering on their spring requirements soon.

HORTICULTURE is the only paper of its class in America.

Business Changes

Lawrence Fortman and William F. Behring have leased the greenhouses of H. B. Campbell, at Davenport, Ia.

The Frank S. Platt Company at New Haven, Conn., have purchased a large building at 352–356 State Street, the price paid being given as $50,000.

ARE YOU GOING TO BUILD?

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

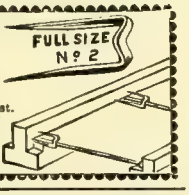
NOT IN THE TRUST

Address:

GEORGE C. WATSON
Juniper and Locust Streets
PHILADELPHIA, PENN.

☞ Remember this factory is NOT in the TRUST and has a free foot.

Holds Glass Firmly
See the Point ☞
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.



PEERLESS SULPHUR BLOWER
"A great improvement over the bellows."
Write for circular.
McMORRAN & CO., 15-21 N. Clinton St., CHICAGO, ILL.

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Send your business direct to Washington, saves time, costs less, better service.
My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the
INVENTIVE AGE
illustrated monthly—Eleventh year—terms, $1. a year.
E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

The ANGLE LAMP
is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps.*

The ANGLE LAMP
is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP
gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

Globe Gas Light Co.
77 and 79 Union St. :: :: BOSTON, MASS.
New England Agents. Send for catalogue.

FLORISTS' WIRE
Stemming Wire cut 9 or 12 inch, or in Stones
GALVANIZED WIRE FOR TYING
H. F. Littlefield, WORCESTER MASS.

GLASS Buy Now and Save Money

We have something special on both Hotbed and Greenhouse sizes. Be sure and get our prices before placing your order, either for carload lots or less.

SHARP, PARTRIDGE & CO. 22d and Union Place CHICAGO

THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

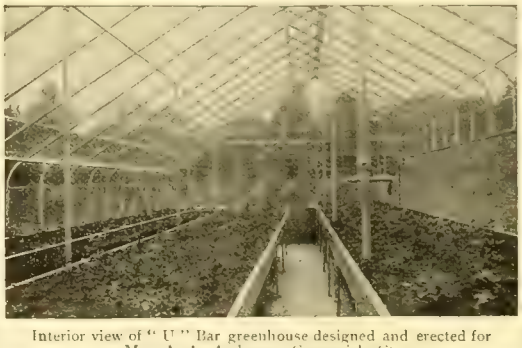
have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



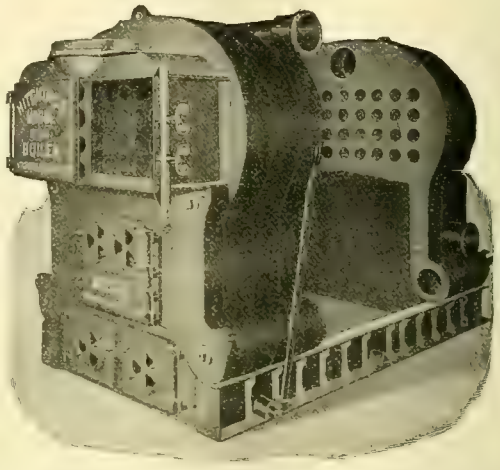
Interior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

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HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



NEW MOGUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK
233 Mercer Street

BOSTON
819 Tremont Bldg.

Send 4 cents for catalogue

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Designed and erected for Judge W. H. MOORE, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

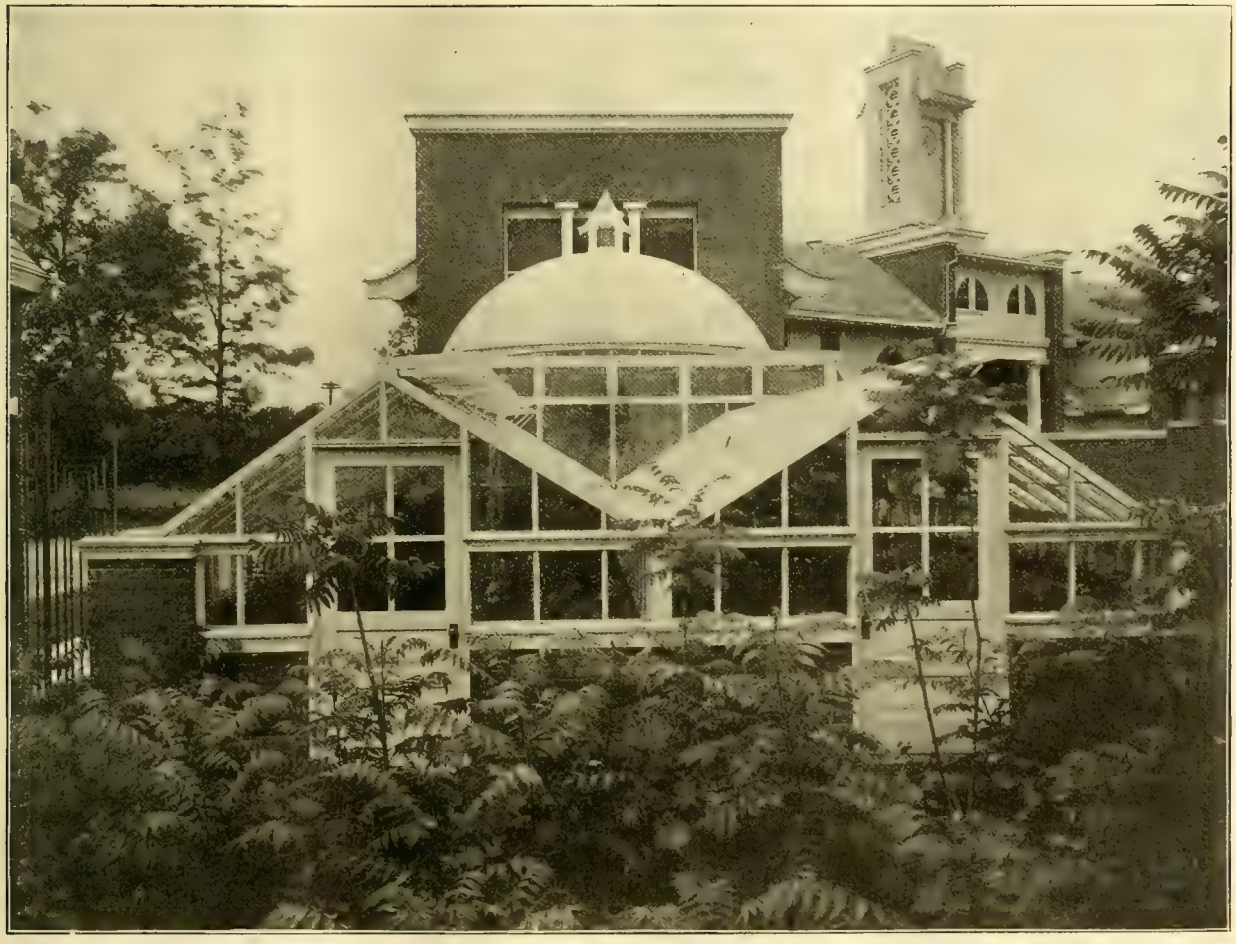
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SUPPLEMENT TO

HORTICULTURE

Vol. I BOSTON AND CHICAGO — JANUARY 21, 1905 No. 8



CONSERVATORY, HARRY REUBENS' ESTATE, CHICAGO, ILL.
Erected by Foley Mfg. Co

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

IF YOU WANT TO SEE
PRIZE WINNERS
THAT ARE
BREAD WINNERS
VISIT THE ESTABLISHMENT OF
CHICAGO CARNATION COMPANY
JOLIET, ILL.

JAMES HARTSHORNE, Mgr.

You Are Welcome!

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OUR SPECIALTY!

PECKY CYPRESS

FOR

GREENHOUSE BENCH LUMBER

Superior to anything heretofore used for greenhouse bench construction. We have introduced this wood and sold it heavily to the Florist trade. We handle everything in the line of building lumber. Get our prices

Adam Schillo Lumber Co.

Weed St. and Hawthorne Ave. CHICAGO

GET OUR PRICES

We are Overstocked on

CLEAR GULF CYPRESS

FOR HOT BED SASH

GREENHOUSE BUILDING MATERIAL

During the year 1904 we sold hundreds

FOLEY VENTILATING APPARATUS

Our customers are pleased with them and so you would be. Allow us to estimate on your proposed extensions for 1905, and save you money.

FREE ILLUSTRATED CATALOGUE

FOLEY MFG. CO., 471 W. 22d St., CHICAGO

Call and see us when in Chicago

Rooted Carnation Cuttings and Blooms

Shipped to all Parts of the UNITED STATES

Remember McKinley Day, Jan. 29th, and place your order for blooms

CUTTINGS NOW READY

	Per 100	Per 1000
Fred Burki	$12.00	$100.00
Eclipse	12.00	100.00
Lieut. Peary	12.00	100.00
Red Lawson	10.00	75.00
Nelson Fisher	7.00	60.00
Ethel Ward	6.00	50.00
Flamingo	6.00	50.00
Octoroon	6.00	50.00
Mrs. M. A. Patten	6.00	50.00
The Belle	6.00	50.00

	Per 100	Per 1000
White Lawson	$7.00	$60.00
The President	6.00	50.00
Lady Bountiful	6.00	50.00
Enchantress	4.00	30.00
Gov. Wolcott	3.00	20.00
Adonis	4.00	30.00
Boston Market	3.00	20.00
Estelle	3.00	25.00
Prosperity	3.00	20.00

Robert Craig for 1906

J. D. THOMPSON CARNATION CO., Joliet, Ill.

KICKERS

We are looking for KICKERS, and the harder they kick the better we like it. WE want to have you KICK when things are not right. We often hear said: "Oh, he's a kicker. We don't care about his trade."

Well, we do, and they are just the ones we do want, so place your orders with us, and be CONVINCED of SQUARE DEALING.

E. H. HUNT, 76-78 Wabash Ave.

CHICAGO, ILL.

LEADING IMPORTERS

L. BAUMANN & CO. FLORISTS' SUPPLIES

76-78 WABASH AVE. CHICAGO, ILL.

Write for our Catalogue F

WEILAND-AND-RISCH

CHICAGO'S RELIABLE

Wholesale Growers and Shippers of

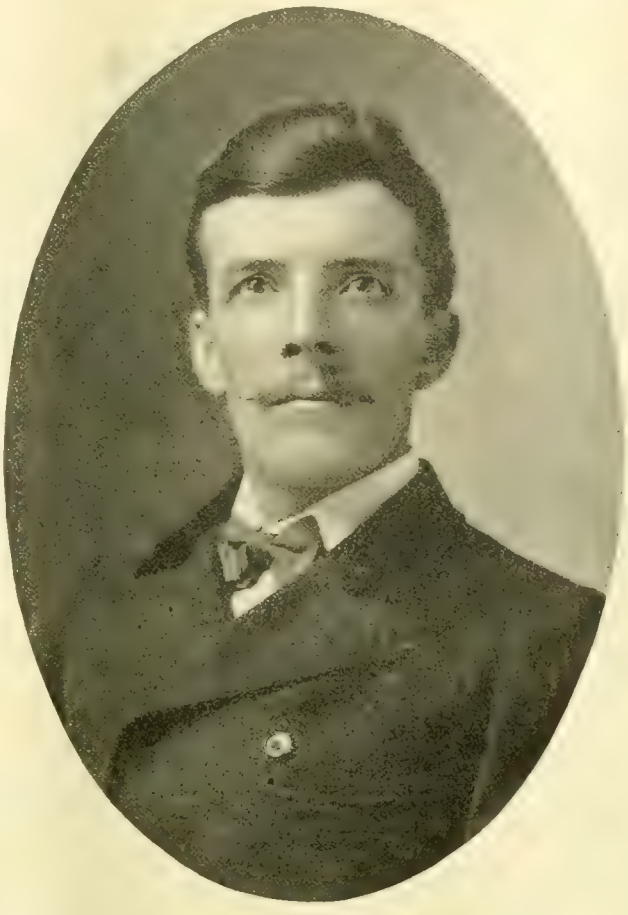
CUT FLOWERS.

59 Wabash Ave., CHICAGO.

Send for weekly price list.

WHOLESALE FLORISTS

AMERICAN CARNATION SOCIETY



JAMES HARTSHORNE
President American Carnation Society

As the time approaches for the annual exhibition of the above Society, those most interested are wondering what kind of weather we are to have. Until last year we have generally been unfortunate in having a blizzard come up just about the time the distant exhibitors had started their exhibits on the journey. After so many sad experiences of this nature, it was the consensus of opinion that if the date of meeting was changed from March to February, we would be more likely to miss the blizzards and strike a time when trains would be running on time, hence the change of date of last year's meeting to March, which worked all right except that it was too late for practical purposes. It was pointed out that florists who buy new carnations had already made up their minds what varieties were the best and had placed their orders a month or two in advance of the exhibition, only to be disappointed in some cases when they saw these varieties on exhibition, but declared they could not wait until the middle of March before placing their order, for it would be April or May before they could get their goods. Therefore all looked back to the old date, and upon reflection thought best to try January 25th and 26th as an experiment. So here we are, and regardless of weather there will be an exhibition. There are enough carnation growers from Ohio, Indiana Michigan, and Illinois to make one of the grandest exhibitions we have ever had, but what we want is to show from the whole of the United States, and we'll have it, weather permitting. It, however, behooves every exhibitor to ship on time; rather twelve hours ahead than twelve minutes late on arrival. One of the successful exhibits the writer made, was at the Philadelphia meeting. I arrived there with my blooms at 8 P.M the day before the show, in a terrible snowstorm and several hours late.

I listened to the advice of several old stagers, and did not unpack my flowers, as I had intended doing, but left them in the boxes all night. That made fifty-two hours for them out of water until the time of judging. Some growers not more than one or two hundred miles from Philadelphia never got their flowers judged at all, owing to their being several hours late. It is the rule now to bar every exhibitor from competition who does not have his flowers staged promptly on time. That rule is enforced to the letter, and the time this year is 1 P.M. January 25th. This rule does not apply to varieties entered for the Certificate of Merit, nor does it interfere with blooms staged and labeled "Not for competition." Everyone having the interest of the exhibition at heart hopes to see all exhibitors on time and no one disappointed. So say we all of us.

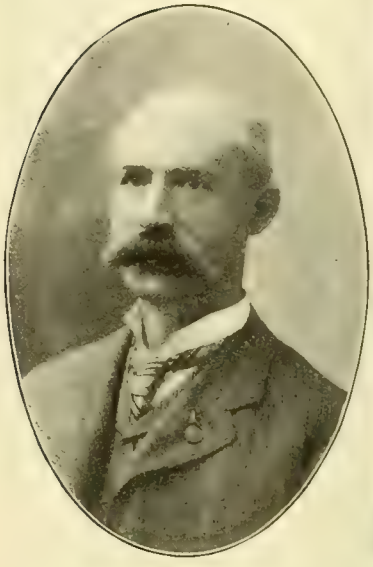
If you have not received the premium list, send to Albert M. Herr, Lancaster, Pa. He will send you one by return mail. You will find many classes that will interest you. There is a chance for everyone to win a prize of some sort; any variety can compete in the hundreds. Varieties introduced prior to July 1st, 1903, can compete in fifties, and varieties introduced prior to same date 1902 can compete in the twenty-fives. Then there is the usual number of special prizes. These few remarks are intended for the new exhibitors and a reminder only for those who are already aware of the facts. You do not necessarily have to be a member of the Society in order to exhibit, but I believe the entry fee charged for exhibits amounts to more than the membership, which is $2.00.

I regret to report that owing to the illness of



THE AUDITORIUM, CHICAGO

CONVENTION OFFICIALS



WM. SCOTT
Judge



W. N RUDD
President, Chicago Florists' Club



WM. NICHOLSON
Judge

Mr. George Wienhoeber, who has been in the hospital for many weeks, we shall not have the pleasure of his paper, "Carnations from a Retailer's Point of View," with practical demonstrations of arrangements. Those who heard this progressive young gentleman's paper at Asheville, realize what we will miss.

James Hartshorn

President American Carnation Society



LEONARD KILL
Exec. Com., Chicago Florists' Club



PHIL HAUSWIRTH
Supt. of Exhibitio



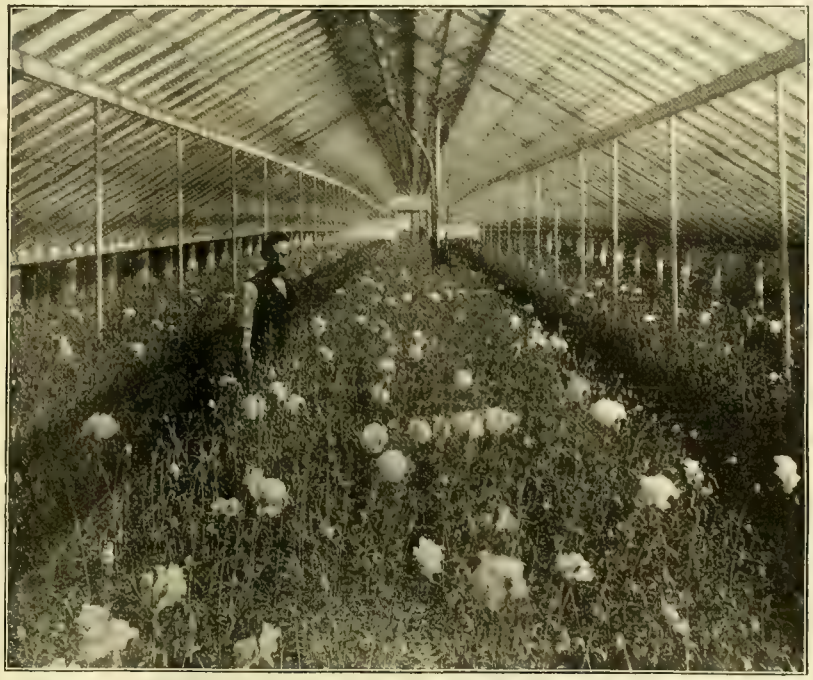
J. C. VAUGHAN
Exec. Com., Chicago Florists' Club

POINTS OF INTEREST FOR VISITORS



CHICAGO CARNATION COMPANY

We take much pleasure in presenting herewith views of a number of Chicago's most notable floral establishments, and portraits of some of their enterprising owners will be found among the pictures of officials taking a prominent part in the work connected with the great carnation event of next week. The Chicago Carnation Company at Joliet, Ill., besides furnishing the president of the American Carnation Society, will send many of the entries that are to participate in the big prizes at the exhibition. Fiancee is a favorite for the gold medal. Cardinal, their new scarlet, is now in splendid shape and the color is absolutely even from one end of the house to the other. Everybody should go out to see it. Flamingo is too slow here to be regarded as a success. A promising red seedling by W. N. Rudd is ideal in color and habit. It is of Estelle color with four-foot stems. In whites, Lady Bountiful and White Lawson are promising candidates for honors. Crusader, introduced in 1903,



WHITE LAWSON AT CHICAGO CARNATION COMPANY'S
Planted Aug. 10th; photo. Jan. 12th



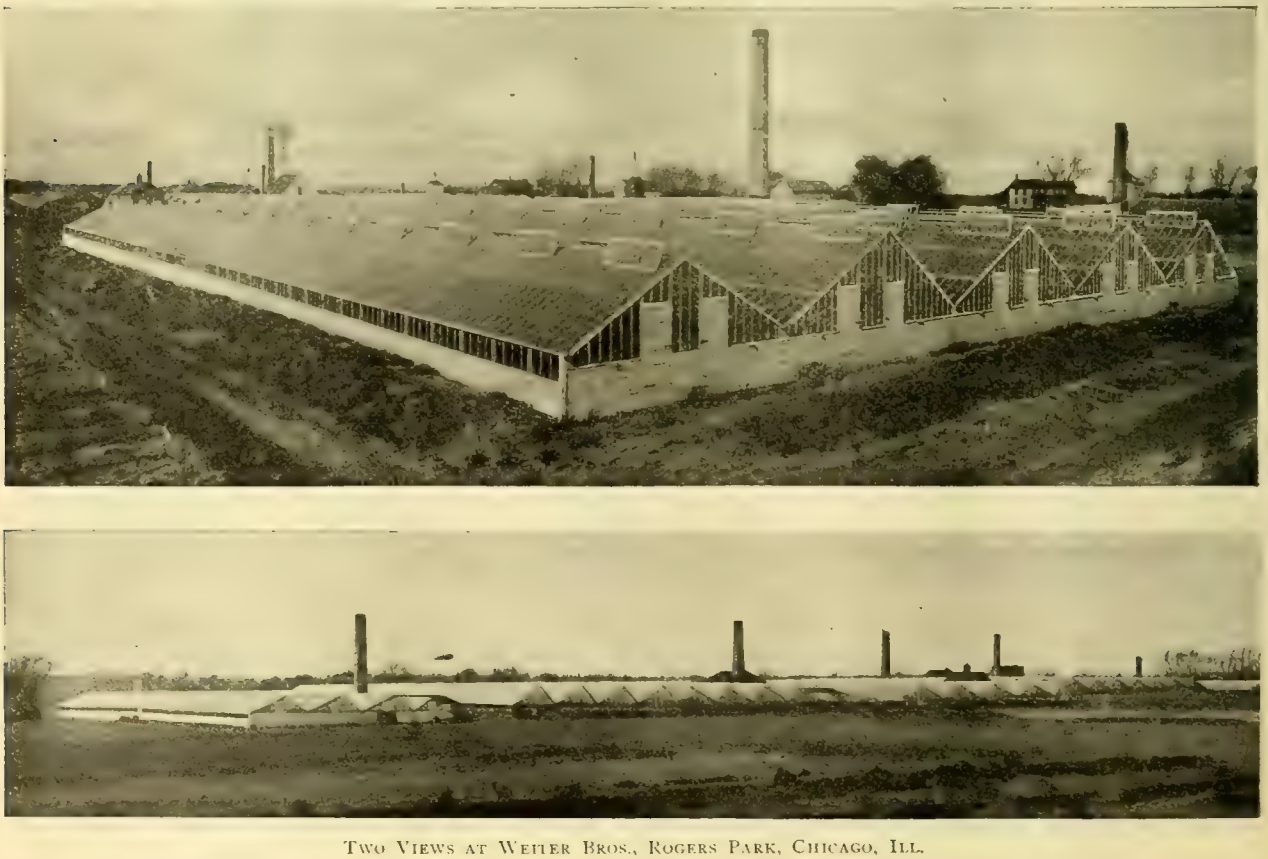
EMIL BUETTNER, PARK RIDGE, ILL.



J. D. THOMPSON CARNATION CO., JOLIET, ILL.

keeps well in the front, but The Belle will be discarded. Enchantress, Dorothy Whitney, and Lawson are all in training for place in the big race. Frank Friedly, the foreman, a graduate from the E. G. Hill Co., is probably the youngest foreman in charge of such a responsibility, being but 23 years of age.

The J. D. Thompson Carnation Co. of Joliet, has received much favorable comment for its recent action in withdrawing Gibson Beauty from sale, after orders for 90,000 had been booked, because it did not come up to expected standard of quality. Among the fine things seen at this place are Nelson Fisher, a variety far ahead of Lawson in many respects, Gov. Wolcott, Boston Market, and the famous Enchantress which was introduced by this company. Estelle and Robert Craig, also. No visitor should fail to see the latter. In every point it is ahead of anything in its line thus far and



TWO VIEWS AT WEILER BROS., ROGERS PARK, CHICAGO, ILL.



PARTIAL VIEW OF PETER REINBERG'S (ROSE HILL), CHICAGO, ILL.
1,000,000 sq. ft. of glass

orders for 250,000 have been booked already. The propagating houses are fairly teeming with the President, the Belle, Mrs. M. A. Patten, Mrs. Nelson, and other notables, and there are 10,000 Robert Craig established in 2-inch pots.

To visit the above described Joliet establishments will require a whole day. The most convenient trains are via the C., R. I., & Pac. R. R. Trains leave station at Van Buren and La Salle Streets at 8, 10, 11.45 A.M. Returning, leave Joliet 12.20, 2.30, 4.30, and 6.25 P.M.

There are many large establishments at Morton Grove. The most prominent is the extensive range of Poehlman Bros. Trains leave Union Station C., M. & St. P. R. R. at 9.30 A.M., 1.26, 2.10 P.M. Returning, leave Morton Grove at 4.06, 5.20, and 5.40 P.M.

A Lincoln Ave. electric car at Court House on Clark Street and Dearborn, will take the visitor to the extensive range of J. A. Budlong, one block east of the terminus of the line. This



FRED LAUTENSCHLAGER
Our Chicago Representative

place is a quarter mile northwest of the Reinberg's. For direct trip to Reinberg's, take Lincoln Ave. electric and transfer to N. Robey at Irving Park boulevard. This car passes the million square feet place of Peter Reinberg.

A visit to Wietor Bros. at Rogers Park will surely repay the visitor on sight-seeing trip. Take No. Clark Street cable car and transfer to No. Clark Street electric, and ride to end of line. Six blocks west on Devon Ave. brings us to the entrance of the great plant of this progressive firm.

Either of the last-mentioned trips can be made Friday morning, insuring return for a trip to the specialists at Hinsdale, Western Springs, Morton Grove, or Joliet. The trips to Hinsdale and Western Springs can be easily combined by starting at 8.40 A.M. or 11 A.M., which will give sufficient time at Western Springs and allow of a trip by train or drive to Bassett & Washburn at Hinsdale. Trains return from Hinsdale at 5.05, 5.54, and 7.05 P.M.



PARTIAL VIEW OF J. A. BUDLONG'S, BOWMANVILLE, CHICAGO, ILL.



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BASSETT & WASHBURN, HINSDALE, ILL.

Pecky Cypress

To a large number of florists it may be interesting to know that a new wood has been but recently appropriated and already extensively used for the construction of greenhouse benches, which bids fair to usurp the time-honored places of hemlock and pine.

The problem that greenhouse builders have always had to confront, was, the question of the most durable wood. In this particular, hemlock has given the most satisfaction in the past. Ordinarily it lasts from three to five years for this purpose, and it has been the aim of the florist to replace it with a more durable wood. Pecky cypress has been conclusively proven to fill the want. It boasts all the qualities of cypress, which, from time immemorial, has been known for its extreme durability. Growing as it does in marshy, watered soil, it is perfectly adapted to excessively moist conditions. It is used with equal results in dry temperature, or under the most adverse climatic conditions. Cypress lumber has not been generally utilized in the past for bench lumber, for the reason that it has been manufactured only in select and clear grades, the prices of which have precluded the florist from using it. Pecky cypress, however, has overcome this difficulty and can now be marketed for nearly the price of its former competitors. It is not prepossessing in appearance, the peck greatly resembling rot in pine. It has been a question of much speculation what the cause of peck in cypress is assignable to. Cavities which form near the top of the tree are filled with a dustlike substance, which is termed peck. Some have attributed this peculiarity to the action of vermin, while others have maintained that it is a consequence of defective nourishment. Whatever the reason may be, the presence of peck in cypress does not in any manner impair its effectiveness as a durable wood. It has no other defects and it can be safely augured that it will be permanently used by the progressive florist until something is discovered of superior merit.

Fred. Lautens Mgr.

Establishment of Nic Zweifel, Milwaukee, Wis.



Questions are often asked as to the relative merits of hot water and steam heat for greenhouse purposes. This seems to be often a matter of choice.

Mr. Nic Zweifel of Milwaukee, cut of whose range, heated by hot water, will be noted above, writes as follows:

"I have four houses, each 28 x 200 ft., with a total of 27,000 square feet of glass. I can get all pipes warm in 30 minutes, and one No. 13 Kroeschell boiler does the entire work."

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In addition to the cutting of a choice line of stock from our own large greenhouses, a partial view of which is given in this issue, we also handle the production of a number of the best growers in this city, thereby placing us in a position to fill all orders in a very satisfactory manner, as a trial order will convince you.

So if you wish to avoid disappointments and want your orders filled satisfactorily, just give us a call and you will be more than pleased that you called upon us.

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Guaranteed all from flowering wood. No blind wood used.

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CHATENAY	1.50	12.50
PERLE	2.50	20.00

CARNATIONS

GOV. WOLCOTT	$2.00	$15.00
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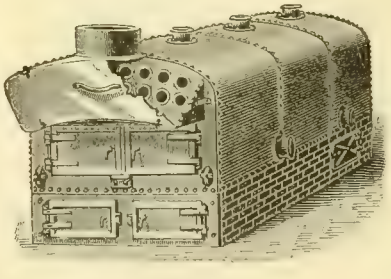
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Trade Package, white or pink,	$1.00	1-4 oz. white or pink,	$2.50
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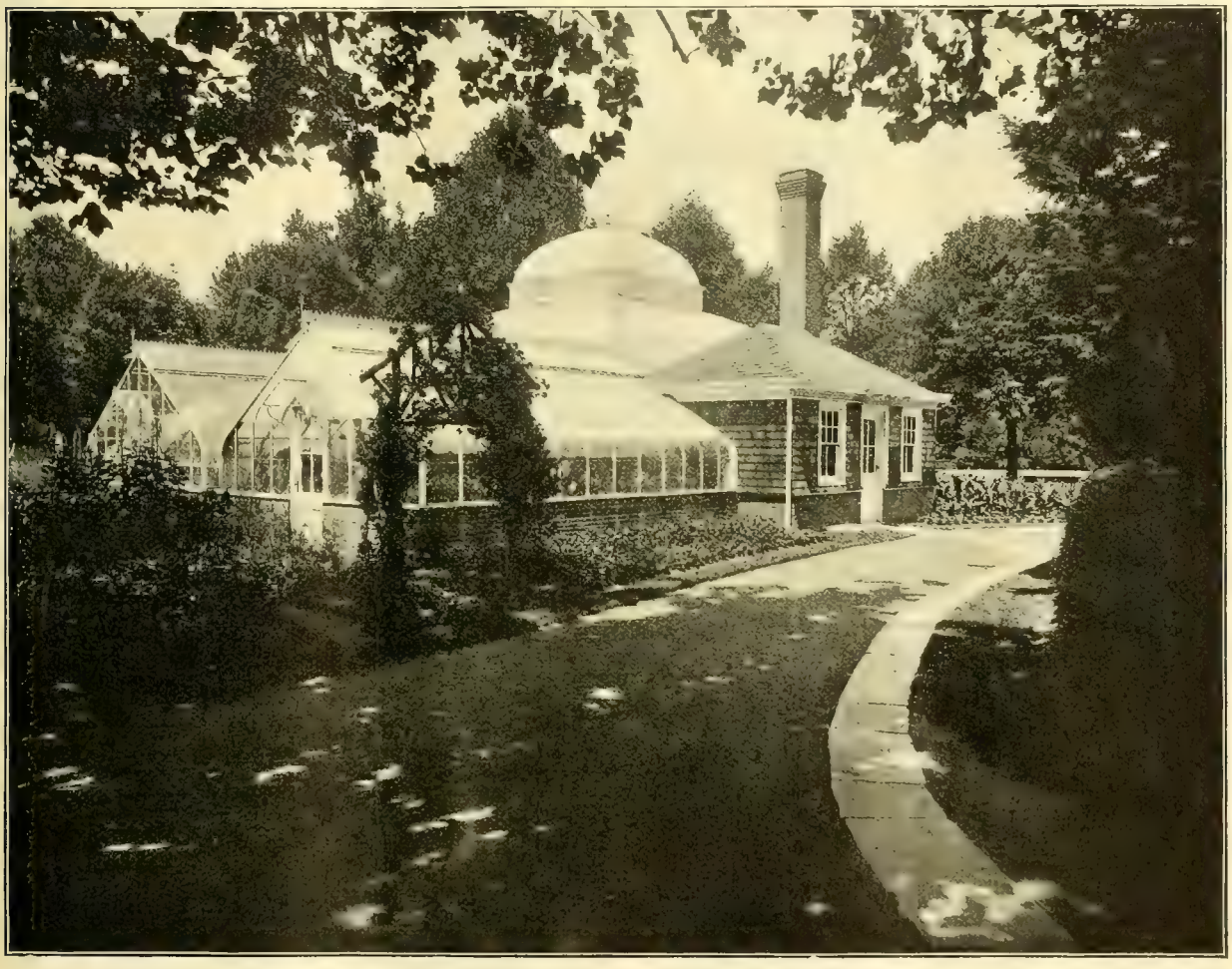
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HORTICULTURE

Vol. I JANUARY 28, 1905 No. 9



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Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

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Variegated Lawson

This variety, introduced by us this season, is sure to meet with popular favor. It is a sport from Mrs. THOS. W. LAWSON, pure ivory white, with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, states that he believes this will outbloom the favorite Mrs. M. A. PATTEN two to one. For some reason or other, the stem seems to be longer than that of Mrs. THOS. W. LAWSON, and the flowers are less inclined to burst. It is a beautiful variegated variety, and one that is sure to be in demand on account of its delicate pencilings. It is superb in every respect. Our exclusive purchase of this variety has created a sensation in the daily press of the country.

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Victory

and that all orders for this variety should be sent direct to us. We are now prepared to book orders for this variety **FOR DELIVERY SPRING 1906.**

We have watched this Carnation for some time, and believe that it is the best scarlet ever offered, with good stems, flowers of the largest size. A magnificent keeper and shipper, and an exceedingly free and early bloomer. While the flowers of this variety are of the largest size, and it will rank in the fancy class, its freedom of bloom and general good qualities will make it a "bread-and-butter" scarlet. There is a great demand for a good scarlet at the holiday time, and the flowers of this variety brought 25 cents each last Christmas, which is an indication of its popularity.

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Cymbidium Sanderæ

One of the finest introductions of 1904 which Messrs. Sander & Sons, St. Albans, received from their collector, Mecholitz. The photograph shows the first plant that flowered in Europe from an undeveloped imported spike. It was exhibited before the Royal Horticultural Society in London, and was awarded a First Class Certificate. The flowers are as large as



the beautiful C. eburneum, of excellent shape, having sepals and petals pure ivory white, broad and of remarkable texture; the labellum is blotched with glowing crimson purple, and the combination of coloring is most pleasing. The plant appears very free growing, and is the most desirable new species imported last year.

Imported Cattleyas

The season for collecting cattleyas is of vital importance to nurserymen, whose business it is to distribute these plants.

Many make two growths each year in the tropics, consequently two resting seasons occur at which time they should be gathered. Importers in this country endeavor to avoid the winter transportation as much as possible, although, in some varieties, this is almost unavoidable owing to the collecting period being just at the wrong time when they would finally reach New York in the frosty weather. Fifteen and twenty years ago they were sent north, irrespective of weather conditions, and many thousands suffered before they were safely housed; latterly, however, C. Trianæ (one of the most popular of them all), have been sent to New York during the summer months and if not too late in arriving, still have an opportunity to make up a new bulb during the warm autumn days.

In Europe they arrive in February and March where the opportunity for transportation is safer. This is essential in England also, — as the light and heat is lacking in autumn, and the spring and summer give them an opportunity of completing their growth ready for winter flowering. Various methods of treatment after arrival have been resorted to, every care being exercised for the preservation of the foliage; although many thousands sometimes come devoid of leaves, fortunately the bulbs may have survived.

Immediately after unpacking, the plants should be thoroughly cleaned, washing them with a weak solution of tobacco water, and decayed bulbs cut away, then suspended, foliage downwards, and syringed daily; a shady place (under the stage is preferable) away from the pipes; in this way water does not remain too long about the plant to create rot. After a week or two they should begin to recover and may be potted, selecting the most plump looking plants first.

Another method is by placing them after cleaning, upright on the stage, on a thin layer of sphagnum moss, placing sticks crosswise between the leaves to allow the air to circulate and prevent decay before root action commences, gradually potting them up, as the small white roots begin to show at the base of the last new bulb. They must be kept shaded for the first few days and sprayed with care.

If, however, the plants are in excellent condition upon arrival and very fresh and plump, they could be immediately cleaned and potted, and kept shaded and cool for the first few days, using water sparingly during this period.

We have been successful with the above methods. The former applies to plants that may have suffered somewhat in transit.

In some varieties circulation of sap after the journey is not rapid, and before it can occur, the foliage which arrived with a deep green hue, rapidly turns yellow. This applies especially to C. gigas and its varieties We have seen them arrive with thousands of perfect leaves, which if not carefully handled, in a few days suffer as described. Many plants are lost through immediately placing them in great heat, and bright light, as soon as they are taken from the cases.

The following varieties of cattleyas for trade uses are recommended.

C. Trianæ flowers in January, February, March.
C. Mossiæ flowers in March, April, May.
C. Gaskelliana flowers in May, June.
C. gigas flowers in June, July, August.
C. labiata flowers in September, October, November.
C. Percivaliana flowers in November, December.
C. Trianæ flowers in December.

This will give a succession throughout the year. Although there are many others useful, the above are preferable.

A. Dennmoek

Cypripedium Insigne

If one were asked to name the most serviceable florists' orchid, the subject of this note would have to take front place.

Its good qualities are many as are the varietal forms that command, some of them, very high prices; but these are all of recent introduction and may be classed with the section of C. insigne, known as "montanum" which has produced all the yellow varieties as well as most of the choice spotted and large flowered forms. Indeed, there is good reason to believe that most, if not all, the yellow or albino varieties came in one single importation. A florist once purchased at a nominal figure the refuse of the auction rooms, and, if my memory serves, out of the lot he flowered fourteen yellow varieties. They were certainly a fine lot of plants when established — and he fortunately knew their value.

The "montanum section" as it has become known among growers, requires different treatment to the older varieties. They are more susceptible to cold if of long duration, which would indicate that they come from a lower elevation. Certain it is that they are not happy in a temperature less than 50 degrees, neither do they enjoy the high temperatures we experience in summer, and it is not wise to attempt growing them in loam as the roots need a compost that is porous and well aerated. We have tried them both ways and conclude that moss and fern fiber with a portion of fibrous loam is the best suited to them.

It is not intended here to speak of varieties of the montanum type, for if once commenced one could not tell where to stop. Moreover, when buying newly imported plants no two individuals prove to be alike so that there is great interest in watching them flower for the first time. We flowered some really fine ones from a lot of thirty-five plants, also some of the poorest which were speedily destroyed. We were led to expect yellow ones, but they did not materialize. The investment, however, was on the whole, a good one — the best varieties invariably having long, broad foliage, the poor ones being easily separated by their smaller growth.

By far the major portion of C. insigne seen to-day in florists' establishments are of the older varieties, and for commercial use are undoubtedly the best suited, as the plants are more vigorous, less fastidious, keep longer on the plants or when cut, and a good stock is easily obtained by division. There are three well marked types even among the old original — first, the common, then maximum, and lastly the Chantinii or Maulei. Their two names are not synonyms but are often transposed. All however, are easily cultivated with very little care. After blooming they may be stored under the benches where light is available, and after the propagating season is past, will thrive admirably for the summer in the structure used for this purpose. Soon after blooming is the time to repot or divide, securing ample drainage and potting in fibrous loam — pans are preferable to pots, If large specimens are desired, they are easily obtained by planting several pieces in the pan according to size. Root action becomes active about April, and disturbance after this is not wise. When the pots are filled with roots it is wise to feed the plants when watering; the plants being terrestrial, will take kindly any attention in this respect. Indeed, the idea that orchids will not take feeding is especially fallacious, but when we come to apply stimulus to the epiphytes one has to be circumspect; this, however, "is another story."

E. O. Orpet

Solanum Pseudo-capsicum, or Jerusalem Cherry

These plants are, if well-grown, the prettiest red-berry plants we have for the holidays. A leading florist of this city said, when seeing our plants: "I could easily get four dollars apiece for them at Christmas." It takes about eighteen months to grow these plants in order to get them well furnished with berries.

I sow the seed or strike cuttings about the first of March. Have them in four-inch pots by the time they are planted out in the field. It is a good practice to pot firmly and the pot should be well filled with roots; it will help to hold the ball together when lifting in the fall. Let the plants grow unhindered, only put a stake by each plant to tie the top to.

Pot them in six-inch pots in the fall, and after that the plants are well established, they may be placed under the benches in the cold house for the winter, keeping them moderately dry.

They may lose most of the leaves and the few berries they had on, but it does not matter as the plants will be pruned when planted out in the spring. The shape of the plant may be regulated by the pruning to either dwarf or high stem, round or pyramid top. Pinching will be necessary a few times. The plants are potted during the early part of September in any good compost, using eight and nine inch pots.

Shading and watering must be attended to with greatest care, as these plants don't lift very well and must not suffer for want of water. The leaves will then surely turn yellow and fall off. Some might have success with growing these plants in pots all summer, but I could never get anything but poor stunted growth on them and very few berries. I have at present two or three plants left that are full of berries. Most of these berries were red in September and are still on, though a little shrivelled.

J. M. Poman

FERNS FOR EVERYDAY USE



The polystichums are easily recognized among ferns by their bristly nature and the firm texture of the fronds. The pinnæ, and generally all the segments of the more or less dentated divisions, are terminated by a long or short spine-like appendage. The stipes are all more or less clothed with from light brown to nearly black scales, especially at the base. Prickly Shield fern is the common name by which they are known, and they are a section of the genus aspidium; the spore masses are round and covered by a round-shaped indusium set on each side of the midribs. They are all of robust constitution, easy to grow in a compost of fibrous loam, peat or leaf mould and sand, like plenty of water, make much better foliage when well-shaded during the growing period, and are all good decorative plants. They are propagated mostly by spores, which are plentiful.

The hardy polystichums that grow wild in the northern hemisphere and stand our winter out of doors, some with a little protection or in good sheltered positions are the gems of our hardy fernery. They nevertheless make fine pot plants. Naturally, if grown too warm they will be attacked by thrips.

Polystichum acrostichoides is our well-known Christmas fern. Everybody knows how to use them. They are not much grown as pot plants. P. a. incisum, a fern that is often found growing with the other, makes beautiful plants of a more robust and erect habit; the pinnæ are deeply dentated.

Polystichum munitum from California and Oregon, is the Western Christmas fern. It makes very nice plants too. The fronds look more like a lomaria and grow in round crowns like it. There is a good dentated form from it in cultivation and also growing wild.

Polystichum aculeatum, the true prickly shield fern which grows wild all over Europe, where it is common, has long, quite narrow twice-divided fronds of a dark-green shining color and of strong texture. There are some ferns which do not differ in a horticultural way, much from the type, like argutum Braunii and lobatum; others that are more interesting for us are crested, tasseled, or finely and diversely cut, and resemble much the forms of Polystichum angulare which is said to be itself a form of aculeatum. Soft Prickly Shield fern, is its common name. It

has a great quantity of forms. Lowe, in his book on British ferns, describes more than 350. They are crested, crisped, cruciated, tasseled, dissected, etc. I think the nicest are the acutilobum divisilobum and plumosum section, P. ang. proliterum and Wollastonii are used some. Like all the species rich in forms, when the spores from different well-selected of those forms are seeded together there is much surprise in store for the careful watcher.

Polystichum lonchitis, the holly fern from Europe and Canada, where it grows in high altitudes. It is of erect habit, the fronds from one to one and a half feet long, narrow, simply pinnate, each pinnæ resembling a small holly leaf, very glossy. They require cool and damp atmosphere.

Polystichum aristatum from Japan, grown generally under the name of Lastrea aristata, is the green form of the better-known P. arist. variegatum, quite a favorite. The fronds are largely marble white, greenish in the center. They want to be grown warm and shady to look perfect.

Among the greenhouse species are: Polystichum capense or coriaceam, the most robust grower of all the species; from a big, scaly, creeping root stock, grow long arching dentated dark green fronds; the stalk of dark color, is as long as the leafy part.

Polystichum tsussimense from China, is said to be a dense form of aculeatum, but more likely it is a dwarf form of capense, which it resembles in all its habits, except the size. It is a very hardy plant and much used.

Polystichum falcinellum from Madeira has fronds of a bright green leathery texture from one to one and a half feet long, spear-shaped in form, about five inches broad in the center. The pinnæ are finely dentated and the spore masses very apparent.

Polystichum frondosum from Madeira, makes nice, bushy plants. It has fronds of a thin texture, light green in color; the stipe as long as the leafy part which is triangular in form, from one to two feet long and half as broad. The pinnæ and pinnules are deeply cut, but the sections near together.

Polystichum mucronatum is a holly fern from Jamaica which resembles much P. lonchitis, a little bigger in dimension and its fronds recurved at the top.

Polystichum triangulum from West Indies, is another holly fern in appearance; the fronds are long and narrower in proportion, the pinnæ, which are very bristly, are not closely set. This species varies very much and there are a few very distinct forms in cultivation. Xyphioides is one of the best. The fronds are long and very narrow, and the pinnæ are richly bordered with spines.

Polystichum maurigianum from Jamaica, has long not large bipinnate fronds, spear-shaped and arching; the pinnæ are spread and give the plant a lofty appearance.

Polystichum pungens from South Africa, forms a creeping underground rhizome. The fronds, about two feet long, are triangular in shape, bipinnate, the pinnules deeply dentated.

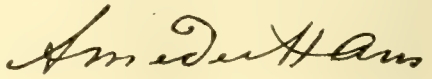
Polystichum proliferum from Australia, resembles much G. aculeatum. The pinnæ are further apart and the divisions more narrow and of a more erect habit.

Polystichum viviparum or trapezoides from the West Indies. The fronds are one foot long, narrow, spear-shaped, are growing numerous in a crown shape; they are of very strong texture, dark, shining green and the pinnæ are deeply lobed.

Polystichum venustum from New Zealand, is a dwarf-growing, very distinct species. The frond is spear-head shaped, all covered with scales and twice divided; the pinnules are small and dentated. There is a form Pol. vestitum venustum with smaller divisions, more crowded, and glaucus on the under side.

Polystichum lepidocaulon from Japan, differs entirely from all the Polystichums, having nothing like them except the way the spores are set. The plant looks more like a Cyrtomium; the pinnæ are sickle-shaped, of a light-green leathery texture; the fronds are arching, terminated by a long tail-like appendage, which grows a young plant at the end like the walking fern. It is a nice bushy plant, good for hanging baskets.

Polystichum auriculatum from India, P. falcinellum from Madeira, P. denticulatum from Jamaica, P. lentum from West Indies, P. polyblepharum from Japan, P. tripterum from Japan, and many others are all good, hardy ferns to use for decorative work.



For Proceedings of the American Carnation Society List of Awards, etc., at Chicago, see Supplement with this issue

Chrysanthemums for Exhibition

The time is now almost here when those who grow blooms for exhibition should see to their stock plants (if they have not already done so), that they are in a proper condition to get good cuttings from, for if we don't begin right we can't expect to finish right, and therefore good, strong cuttings are essential.

The first of February is none too early to get some of the varieties into the sand. Such varieties as Merza, Mary Inglis, Lord Salisbury, W. R. Church, Lady Roberts, and Mrs. E. Thirkell, that require a long season's growth, should be in the sand now.

An ideal place to root chrysanthemums is on a bench in a house with a northern aspect, the bench to contain about four inches of clean, sharp sand, free from clay or any other such substance, and with a gentle bottom heat of about 56 degrees and 50 degrees over head. Having these conditions, chrysanthemums will root nicely in from fourteen to sixteen days. As soon as their roots get to be an inch long they should be taken from the sand and potted firmly into 3-inch pots and placed in a light, airy, cool house, keeping them as near the glass as possible with a temperature of 40 to 45 degrees at night, and a rise during the day time of 10 to 15 degrees.

Do not pot in a rich soil for first potting, as a rich soil tends to give them a soft and rapid growth which should be avoided. A light sandy soil is much to be preferred to start with, the idea being to have them dwarf and stocky and have a good foundation to build on as we go along. As soon as they are well rooted in 3-in. pots they should be shifted into 4½ or 5-in. pots and never allowed to become pot-bound until put into bench or flowering pot, for if the wood gets hard and wiry when in a young state, no amount of coaxing will bring them back to where they should have been, and disappointment is sure to follow.

The introduction of so many meritorious varieties of the last few years has almost caused a revolution among the older sorts, and to discard some of those that have been at the top of the ladder for so many years is like parting with dear old friends. We have so many good varieties now of every hue and color, that to say which we ought to grow and which we should discard is a pretty hard question to decide, and should be left largely to the individual to decide for himself. In the pink section there is probably more progress made than in any other. Viviand-Morel, that has held her own against all comers for the last eight or more years and won many a hard fight for supremacy, must now give way to that grand variety William Duckham, and also Leila Filkins. Kate Broomhead in the "any other" or bronze section has to do the same thing to Donald McLeod, Harrison Dick and Ethel Fitzroy. W. R. Church, although not a bronze, fits well in the "any other" class. In yellows, Col. D. Appleton has for quite a long time held the honor berth, but is sure to be succeeded by Mrs. William Duckham who will be as well known by the 31st of December, 1905, as the president of the Chrysanthemum Society is to-day. Cheltoni is another variety that will be in the front ranks as a yellow.

In whites, Merza still holds her own and is a very formidable opponent for any other white that comes up against her for size, stem, and foliage, also texture. In reds we have two grand varieties in Maynel and Harry Barnes for the small vase, to be shown in collections, but they have both of them very long necks which would be sure to tell very much against them in a class calling for long stems, and it is doubtful if they could hold their own with John Shrimpton and H. J. Jones in the long-stemmed class, although for size, Shrimpton cannot be compared with Maynel.

The list of forty-two varieties appended may not include all of the best there are, and while there may be some varieties omitted that are equal to those mentioned, I think this is a set when well done that does not leave out much that is desirable in a chrysanthemum.

A LIST OF VARIETIES FOR EXHIBITION

WHITE

Mme. Carnot, Merza, Ben Wells, Guy Hamilton, Mrs. D. V. West, Mrs. Weeks, Mutual Friend, Timothy Eaton, Nellie Pockett.

YELLOW

F. S. Valis, Col. D. Appleton, Mrs. Trainor Park, Mrs. E. Thirkell, Gen. Hutton, Yellow Eaton, Cheltoni, Mrs. T. W. Pockett.

PINK

William Duckham, Leila Filkins, W. A. Etherington, F. A. Cobold, Durban's Pride, Mrs. George Mileham.

PURPLE SHADE

Mrs. Carrington, Australia, Charles Longley.

RED

Maynel, H. Barnes, H. J. Jones, John Shrimpton, S. F. Wright, M. Tucker, Lady Roberts, Lord Hopetown, W. R. Church.

BRONZE

Mary Inglis, Donald McLeod, Lord Salisbury, Ethel Fitzroy, Rustique.

TERRA COTTA

Mrs. J. A. Miller, J. H. Doyle.

W. N. Riggo

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

We earnestly hope that those of our readers who are citizens of Massachusetts will interest themselves in the well-prepared measure, now before the legislature, for the suppression of the moth pests, and do all in their power to influence their respective representatives to favor its passage.

Concerning the proposition to secure an appropriation by the Connecticut legislature for the purpose of buying shore lands for public parks, the *Norwich Bulletin* remarks that "it is no part of the state's business to preserve sections of the coast or shore for the use of the people." Happily, in Massachusetts, we think differently.

The daily newspapers of the country, particularly those of the "yellow" class in New York and Boston, have once more made themselves ridiculous by their "frenzied" nonsense about the sale of a "pink" for $20,000 to a "millionaire florist." We all hope that Mr. Pierson may yet be a millionaire, if that be his ambition, but these exaggerations do floriculture no good and we are glad to know that neither Mr. Pierson nor Mr. Arnold were in any way responsible for this one.

By the time this paper reaches its readers the carnation meeting at Chicago will have passed into history, let us hope, with great and lasting benefit to the "divine flower" and her enthusiastic followers. Now let us give our attention to the rose "Resplendent Rose! the flower of flowers" and spare no effort to make the meeting and exhibition of the Rose Society at Boston next March a notable occasion. Unusual preparations are being made by the Massachusetts Horticultural Society and the enterprising growers around Boston to assure an exhibition such as has never been seen on this continent. Rose growers all over the country should follow the example of their carnation brethren and make it their business to be present at this feast of roses and do their share to make the occasion worthy of the rose and the rose-growing industry.

President James Hartshorne's address to the American Carnation Society impresses us as a business-like document, admirable not for its frills, but for its sound and practical views, plainly expressed. His recommendation that carnation raisers be given more frequent opportunities to display their novelties before expert judges and in several localities, seems particularly timely, considering the acknowledged disadvantage to the remote grower under the present system, a disadvantage so serious that growers hesitate about submitting their seedlings to the test of comparison, after many hundred miles journey, with varieties grown on the spot. There seems but one alternative and that one with several obvious drawbacks — the distribution of small blocks of the stock of new varieties among competent and trustworthy growers in the different sections of the country. Distances are so great and travel at this inclement season of the year so devoid of attractiveness that good cause for a localized attendance at these conventions is easily apparent. President Hartshorne's suggestion that the S. A. F. might find a way in which to coöperate and lend its help towards some feasible plan for a fall exhibition is a most excellent one and should find a willing response on the part of the S. A. F. should the carnation society see fit to endorse its president's views.

The American Carnation Society, in selecting Peter Fisher as its chief executive officer for the coming year, has honored itself in equal degree. This is a case of "the office seeking the man," for one of Mr. Fisher's most pronounced traits is his "backwardness in coming forward," and, as in most instances where the office seeks the man, the Society gets an executive whom all can honor and is assured of a year's faithful service on broad and impersonal lines.

Peter Fisher came from Scotland to Boston about twenty-six years ago and was quickly recognized as a gardener of practical experience and attainments far beyond the ordinary. His retiring disposition, however, kept him in from the glare of publicity beyond his immediate environs until his phenomenal production — the Mrs. T. W. Lawson Carnation — turned the calcium light on the man and his work, since which time Peter Fisher has done little that the horticultural world — particularly the carnation section of it — has not promptly taken cognizance of. In short, it may safely be asserted that were Peter Fisher and his carnation work, direct and indirect, cut out of the great exhibition just closed, it would leave a tremendous gap. We congratulate the Society and we congratulate Mr. Fisher. A glorious meeting is assured for 1906 and HORTICULTURE will join in the welcome to the host of distinguished visitors that the event will bring to the Hub.

What They Say of Us

"The love of praise, howe'er conceaied by art
Reigns more or less, and glows in every heart."

It's a great paper this week, is HORTICULTURE. I congratulate you. —J. A.

It's a gem, sparkling with news; keep it up, old boy, and there is plenty of room for a paper that is full of snap and vigor like HORTICULTURE. — O. G. K.

I inclose one dollar for subscription to HORTICULTURE. Your paper is all right and a little "Yankee ingenuity" will, we know, stimulate the craft in general. — J. W. D.

I did not congratulate you upon your first number because I think it was policy to see two or three and then average them. You are doing great things. Hope your energies will never cease. — A. D.

Inclosed find one dollar for HORTICULTURE. I am well pleased with the journal. It is well got up, up-to-date, deserves a liberal patronage, and should have the united support of the Florists and Gardeners of the country to a man. Wishing you unlimited success in your new venture. — H. D. S.

After Adjournment

January is treating the carnationists very gallantly as to weather. If anybody should be too late for the judging this year he must find some other excuse than stormy weather.

We read in a Bangor paper that Carl Beers has made a big anchor for a funeral this week which he declares is the "handsomest he has ever built." Sorry to see so good a man going a-gley.

Glad to note that our friend Arnold of Rockland has the good sense to come forward and puncture the newspaper yarns about the price paid to him for the Variegated Lawson. There are people who would have revelled in the opportunity to get notoriety through this means.

A WORD FOR ADONIS

MR. EDITOR.

Dear Sir: I want you to give G. C. Watson a word or two of encouragement and tell him not to lose heart in Adonis. She is not on her last legs by any way. I had great hopes in her last season and this season she is 50 to 75 per cent better, and next season I expect to see her in all her brilliancy, size, form, and good qualities. I have flowers 3–3½ inches across, plants vigorous, healthy, and far superior to Flamingo. I pin my faith to Adonis.

WM. TRICKER.

Out of the Ginger Jar

A tour among the seed stores at this season finds all hands busily engaged mailing catalogues. The catalogue is the big job of the year and entails endless detail and worry to the heads of departments. When it comes to mailing, everything is plain sailing and a cheerful air is apparent from the boss down to the errand boy.

Appropriate names are not as easily hit on as people think. Burpee is usually happy in that line, but what are we to think of Howling Mob Sweet Corn? Oh Jonadab! If it's a good thing, prithee most noble and puissant monarch, give it a fair show on its start in life. There's an eighteen-year-old girl on our street. She weighs 200 pounds at least. Violet's her name. Suffering Cæsar, why couldn't they have made it Mary. Poor little sweet violet! What a handicap. Then there's Uncle Gideon's new potato "Quick Lunch;" that's far too sensational and doesn't really convey any meaning. Take the long white radish Burpee sent out some years ago, "White Icicles," what could be more appropriate? That was fine, but "Howling Mob" 's a crime on an unoffending public.

Henderson's people skate on thin ice when they call their new tomato "Tenderloin." A great many will think of the slums of New York at mention of that name, and that will suggest cheap restaurants instead of the extra fine quality which the introducers doubtless intend to convey by the word. Again, in their new pea "Melting Marrow," is it quite appropriate to speak of a green wrinkled pea as a "marrow?" We have always understood that the word marrow was used to designate white-seeded, large-podded peas. There seems to be no special reason why it should not be applied to others except that people would be apt to misunderstand, and clearness is a great merit in nomenclature.

The early tomato dance goes merrily on. Burpee says: —"*Spark's Earliana is undoubtedly the earliest smooth, bright red tomato of good size.*" To which solemn and emphatic statement we find Maule asservating from the experience of his customers that "*Spark's Earliana, while a good tomato, Maule's earliest of all was not only just as early, but in many cases, five or six days earlier,*" and further caps the climax by claiming "100 *per cent ahead in quality.*" The chances are that both authorities will sell all the seed they have of both varieties and that all who buy will be thoroughly satisfied, so no one need lose any sleep in trying to figure out who's what in this matter. But it shows how keen the tomato growers are after the slightest advantage and how manfully the seed houses hustle to give them what they want. That's genuine progress in Horticulture, and is the mother force that has given us most of the improved forms of the present day. In this connection you are specially requested to forbear from making any reflections or comments on Washington, D. C., and the graybeards up there who are revolutionizing in their minds and following about five years in the wake of the Burpees, and Maules, and other wide-awake seedsmen who are the real pioneers.

W. J. Sherry of Johnson & Stokes, thinks his firm has a winner this season in a new cabbage which they have given the taking name of "Quick Cash." It is of the flat Dutch type, and is claimed to be the earliest *large* cabbage to date. J. & S. were the introducers of Spark's Earliana tomato and they smile indulgently when they hear other seedsmen bragging about their choice stocks of that variety. Mr. Sherry is modest about it, but one can see he thinks their Frisbie stock of Earliana is the only only.

"What is your most important novelty for 1905?" we asked Mr. Burpee.

He considered considerable and finally said, "We have so many fine new things this year that it is difficult to give any one the premier position, but from its importance to the canning industry and the country generally, I am inclined to give it to a new bean which we are sending out this season. Up to date the Davis White wax has been in a class by itself alone and unrivalled and the stand-by of the commercial growers. But we have at last succeeded in getting one that will beat it and I predict that will supplant the Davis as soon as sufficient seed can be got. We call it Burpee's White Wax. The seed is so scarce that we are sending it out by the packet only this year. No bulk seed will be distributed."

The blackboard is a useful thing in a store. Mr. Muth of the Cut Flower Co. has this legend staring customers in the face as they enter: "*It seems to me there was something I wanted in supplies. Was it ribbon, foil, letters, doves, toothpicks, tissue paper, chenille, fancy cord, wheat sheaves, or fancy paper?* REMEMBER: *we can supply all these right and save you time.*" Good business.

S. S. Pennock and Leo Niessen Co. are also in the supply business more or less, and are reaching out for all the trade. The Bayersdorfer outfit does not seem to grow any less, however, and so far as one can see are not losing any sleep over this competition. Mr. Berkowitz says it takes their house four weeks now to do the annual stock-taking. Ten years ago they could start on Monday and finish by Thursday.

A happy advertising phrase was adopted by the Bowker people: "*For*

the land's sake! use Bowker Fertilizers." I suggested a modfiication of this to Edward Reid whose slogan is "*good stock, good treatment, good packing.*" Said I, why not put it this way: "*For goodness sake! use Reid's Flowers.*" But he couldn't see it. Another case of budding genius crushed!

The Dingee & Conard Co. have a color plate of Baby Rambler Rose on the front page cover of their catalogue. A good piece of work and a money bringer sure. P. J. Lynch is apparently the author of the introductory this year if one may judge from the heartfelt and eloquent phrases. A model. Look out William Henry Maule. This is certainly a great rose catalogue and should be studied by all lovers of the queen of flowers. About 1,000 varieties are listed and most of them described.

Burbank's new Crimson Winter Rhubarb is being offered in several English catalogues this season. The demand for seeds and roots of this variety in the United States has been ahead of the supply. Prices still rule high, considering that this was offered two years ago.

At Michell's they swear by their new matchless Lettuce and new Sugar Loaf Corn, the latter of which they color plate. Their new pink Dahlia, Mrs. Roosevelt, has proved a winner and is again one of their leaders. Mr. Freud says this is the finest dahlia in the world. It belongs to the decorative type and is very large and has long stems.

The Pansy as a cut flower is not an important staple perhaps, but still a good deal of business is done in it. The Niessens handle as fine a strain of this as could be wished; extra quality mostly of the Bugnot type, large flowering, blotched and stained, and with some very fine yellow and white selfs among them. They are put up in nice little bunches and sell well.

G. C. WATSON.

The Massachusetts Association for the Suppression of the Gypsy and Brown-tail Moths is showing a most business-like activity in the work for which it was organized. Its committee on legislation has a well-considered bill already before the legislature — a measure which has been formulated after the fullest investigation by competent experts. The bill provides for an appropriation extending over a number of years, and limits the amount to be spent in any one year to $250,000. Those in a position to know, are satisfied that no half-way measures will be of any value.

Florists' Topics

Arnold and Johnson of Randolph, Mass., have taken the florists' business of Ryan Bros. on Hancock St., Quincy. Mr Arnold reports that the conditions promise a satisfactory development. Since the Fore River Ship and Engine Building Co. has established itself in Quincy, the center has grown rapidly as a shopping district, and a prosperous florists' establishment would naturally seem to have a place with other interests.

A feature of Mann Bros.' plant, at Randolph, Mass., is a block of short, roof-connected houses to be used for storage and growing of imported bulbs and plants. The houses are piped and a temperature of fifty-five degrees is possible. Evidently Mann Bros. are making a commercial success of forcing foreign stock, as the glass used for this purpose and their imports are being constantly increased. Holly in pots for Christmas was to them a very satisfactory feature of this season's business.

Herman Waldecker of Braintree, Mass., cut 126 dozen bunches from his bench of mignonette, during Christmas week. He used liquid manure, using a barrel and water pot, and doing the work by hand. He was so well pleased with the result obtained that he will build a tank and set up an engine, and use his water-pipes, hydrants, and hose in order that other parts of his plant may be reached in an available way. As his Christmas cutting of mignonette is only the first installment of his crop, it would appear that he was justified in extending the liquid-manure treatment in the manner proposed.

Business Changes

S. Morehead has opened a retail flower store on Main Street, Cincinnati.

T. J. Leyden, 117 W. Water Street, Elmira, N. Y., has sold out to F. S. LaFrance.

The Callander Cactus Co. was incorporated at Springfield, O., last week, with a capital of $5,000.

Leopold Koropp has bought the stock and fixtures of the E. A. Asmus Company, Chicago, and leased the greenhouses and store from Emil Buettner.

Culligan & Co. have bought out the long established business of George B. Jones, San Francisco, Cal. Mr. Culligan was an employee of the establishment for many years.

News of the Clubs and Societies

Society of American Florists and Ornamental Horticulturists

President Vaughan has appointed Messrs. E. V. Hallock of Queens, N. Y., and W. H. Elliott of Brighton, Mass., to serve as directors for the three-year term, beginning January 1, 1905.

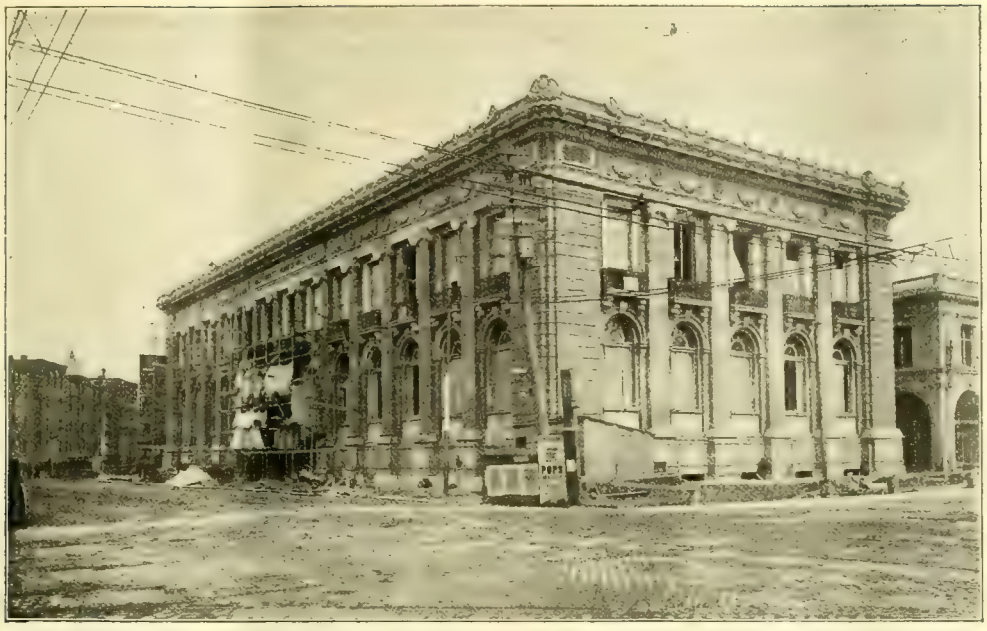
Also the following gentlemen to serve as State Vice-Presidents for the year 1905: —

Alabama — Hugh Seale, Birmingham.
California — Hans Plath, San Francisco.
Colorado — J. A. Valentine, Denver.
Connecticut—John Coombs, Hartford.
Florida — C. D. Mills, Jacksonville.
Georgia — A. C. Oelschig, Savannah.
Illinois, S. — John Willius, Danville
Illinois, N.—P. J. Hauswirth, Chicago.
Indiana — Irwin C. Bertermann, Indianapolis.
Iowa—Theodore Ewaldt, Davenport.
Kansas — C. P. Mueller, Wichita.
Louisiana — Harry Papworth, New Orleans.
Maryland — R. Vincent, Jr., White Marsh.
Massachusetts E. — W. W. Edgar Waverly.
Massachusetts W. — Thomas Collins, Hinsdale.
Michigan — Henry Smith, Grand Rapids, and R. G. Boehringer, Bay City.
Minnesota — O. J. Olson, St. Paul.
Missouri — F. J. Fillmore, St. Louis.
Missouri, W. — Albert Barbe, Kansas City.
New Jersey — C. W. Turnley, Haddonfield.
New York, E. — F. H. Traendly, New York City.
New York, W.— George W. McClure, Buffalo.
North Carolina — James M. Lamb, Fayetteville.
Ohio, N. — James Eadie, Cleveland.
Ohio, S. — H. M. Altick, Dayton.
Pennsylvania, E. — H. H. Battles, 108 S. 12th St., Philadelphia.
Rhode Island — Arthur Griffin, Newport.
S. Carolina—C. A. Moss, Spartanburg.
Texas — H. Kaden, Gainesville.
Virginia — C. Ponnet, Alexandria.
Wisconsin—George Vatter, Marinette, and W. A. Kennedy, Milwaukee.
Ontario — T. W. Duggan, Brampton.

WILLIAM J. STEWART, *Sec'y.*

The annual meeting of the Postal Progress League will be held at 20th Century Club Rooms, 2 Ashburton Place, Boston, Mass., on Tuesday, January 31, 1905, at 4 o'clock P.M. Do not fail to be present.

JAMES L. COWLES, *Sec'y.*



HORTICULTURAL HALL, BOSTON

Where the 1906 Meeting of the American Carnation Society will be held

At the meeting of the Massachusetts Horticultural Society on January 21, W. A. Manda was awarded certificates of merit for Cymbidium Tracyanum and a new Lycaste, a natural hybrid between L. Skinneri and L. lasioglossa, and honorable mention for Dendrobium nobile alba. E. O. Orpet received a certificate of merit for his hybrid Cattleya Suzanne.

The seventeenth annual dinner of the Montreal Gardeners' and Florists' Club was celebrated in the Club's rooms on January 16 and was one of the best on record although financially a failure. It is too bad when the Club votes to have a dinner, picnic, etc., that about 20 per cent of the members fail to turn up. Of course some have good reasons at times, especially in midwinter, when severe weather may prevent those from a distance attending, but in the present instance no such excuse could be advanced.

President Jos. Bennett made an excellent master of ceremonies and during the evening presented Mr. A. C. Wilshire with a fine timepiece as a slight acknowledgment from the members for his support and work on behalf of the Club. Mr. Wilshire was so surprised that he only briefly replied. An encouraging letter was read from our representative in the provincial parliament, promising to do all he could in our interests. The comic songs of Mr. McGrowly were a feature of the evening.

Reference was made to the approaching convention of the Canadian Horticultural Association and also to the carnation show which the Club will hold on Thursday, February 23, and to which all growers within reach are requested to attend or send an exhibit. A silver cup will be awarded for the best vase of one hundred blooms, any variety; certificates of merit are also offered

---

The State Florists' Association of Indiana has elected officers as follows: President, Fred Lemon, Richmond; First Vice-President, Herman Junge, Indianapolis; Second Vice-President, John Rieman, Indianapolis; Secretary, Fred Hukreide, Indianapolis; Treasurer, John Heidenreich, Indianapolis; Executive Committee, J. A. E. Haugh, Anderson; Gunnar Tielmann, Marion; J. A. Evans, Richmond; A. F. J. Baur and E. A. Nelson, Indianapolis. The Association appointed committees to seek a revision of the State Fair premium list and to secure an appropriation from the State for the Purdue University experimental station.

The Eighteenth Annual Dinner of The New York Florists' Club will be held Saturday, February 4th, 1905, at the St. Denis Hotel, Broadway and 11th Street, at 7.30 P.M.

Mr. Thomas Baker will be present with his staff of entertainers, and an excellent program has been arranged.

Indications point to a large attendance, and members are requested to send their acceptances to the Committee at once to facilitate its work in making final arrangements.

At the annual election of the New Hampshire Horticultural society, held at Concord, January 18, the following resolution was unanimously adopted:

Resolved, That the New Hampshire Horticultural Society commends to the legislature the bill introduced in the house, by Mr. Davis of Hinsdale, and in the senate by Senator Dudley of Concord, for the re-organization of the forestry commission and the protection of forests from fire, and that the reorganized commission should not be merged with any other board.

The much talked of contest between the New York and Flatbush bowling florists came off on the night of January 19, at Flatbush, and resulted in the complete discomfiture of Flatbush. A good dinner was enjoyed after the games, and a number of enthusiasts returned to the alleys and were not dislodged until after midnight.

The scores were as follows: —

Flatbush

Mellis	124	115
Schmutz	191	122
P. Dailledouze	136	122
Siebrecht	158	158
H. Dailledouze	129	127
Riley	166	136
Wocker	110	138
Scott	135	113
Zeller	130	138
	1279	1169

New York

Manda	158	182
Butterfield	128	160
Shaw	101	148
Holt	203	153
O'Mara	205	136
Traendly	147	155
Kessler	197	155
Burns	176	115
Fenrich	139	195
	1454	1399

The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

. . . PRICES . . .

Own root	$ 25	per 100	Grafted	$ 30	per 100
"	55	" 250	"	70	" 250
"	100	" 500	"	130	" 500
"	200	" 1000	"	260	" 1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

JOHN N. MAY, SUMMIT, N. J.

THE Christmas Fuchsia

A winter flowering variety that will bloom at Christmas and make a nice bushy plant for the holiday trade is wanted. Neither FULGENS nor COCCINEA are satisfactory subjects for Christmas. A variety has been found that has all these good qualities and is in fact almost a perpetual bloomer. It has beautiful bronze foliage, and bright red flowers three inches long freely produced in terminal drooping clusters. So far as known, only one small batch of it is in existence and the fortunate possessor holds same tight. He has, however, consented to propogate a quantity for us and we are prepared to book orders now for delivery as soon as well rooted —from 2½-inch pots—which it is expected will be about April 15th,

35 cents each
$3.50 per dozen
$25.00 per 100

Watson's Seed Store
Juniper and Locust **Philadelphia**

Grafted Rose Plants

2½-INCH POTS

Grafted from all flowering wood; no blind wood used. These are all grafted on selected English Manetti stocks.

BRIDE	*per 100, $10.00*
BRIDESMAID	*" 10.00*
CHATENAY	*" 10.00*
LIBERTY	*" 12.00*
LA DETROIT	*" 12.00*
MacARTHUR	*" 12.00*

Rooted Cuttings

Guaranteed all from flowering wood. No blind wood used.

ROSES

	Per 100	Per 1000
BRIDE	*$1.50*	*$12.50*
BRIDESMAID	*1.50*	*12.50*
CHATENAY	*1.50*	*12.50*
PERLE	*2.50*	*20.00*

CARNATIONS

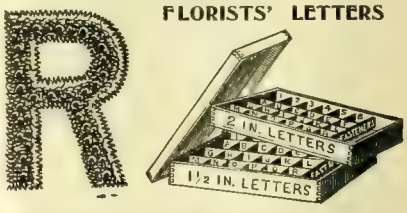
GOV. WOLCOTT	*$2.00*	*$15.00*
WHITE CLOUD	*2.00*	*15.00*
NORWAY	*2.00*	*15.00*
MRS. LAWSON	*2.00*	*15.00*
MORNING GLORY	*2.00*	*15.00*
MRS. JOOST	*2.00*	*15.00*
CRANE	*2.00*	*15.00*
AMERICA	*2.00*	*15.00*
PROSPERITY	*2.00*	*15.00*
GAIETY	*2.00*	*15.00*

Also the sensational new variety, ***FIANCEE.*** Our order was put in two years ago, and was the first order given for ***FIANCEE.*** We can promise very early delivery at same prices as the introducer. ***FIANCEE, per 100, $12.00; per 1000, $100.00.***

Bassett & Washburn,
Greenhouses, Hinsdale, Ill.
Office and Store, 76 Wabash Ave.
CHICAGO.

BOSTON FLORIST LETTER CO

MANUFACTURERS OF
FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

Headquarters in Western New York

For ROSES, CARNATIONS

And all kinds of Seasonable Flowers.

WM. F. KASTING
Wholesale Commission Florist

Also Dealer in Florists' Supplies and Wire Designs.

383-87 Ellicott St. BUFFALO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

Letters, Strips and Emblems

Koral Manufacturing Co.

Office and Factory:
26 HAWLEY STREET, BOSTON, MASS.
Telephone, Main 3978-1 J. B. Olden, Mgr.

ORCHIDS

We are headquarters for Orchids in the United States If you want Orchids for pleasure or profit, we respectfully solicit your orders. Catalogue on Application.

LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Japan Bamboo Stakes

IN LARGE QUANTITIES
WRITE FOR PRICES

SUZUKI & IIDA, 31 BARCLAYS NEW YORK

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get your results beyond expectation.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

ROOTED CARNATIONS

FROM FLOWERING STEMS ONLY

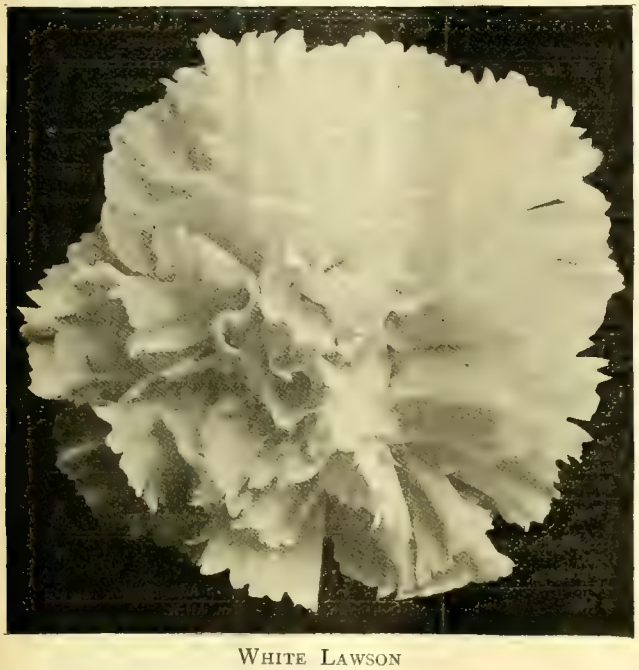
	Per 100	Per 1000
Mrs. M. A. Patten	$6.00	$50.00
Enchantress	3.50	27.50
Boston Market, J. H. Manley	3.00	25.00
Fair Maid, Harry Fenn	2.50	20.00
Mrs. T. W. Lawson	2.50	20.00
Gov. Wolcott	2.50	20.00
Flamingo	500	40.00

HENRY A. STEVENS CO., Dedham, Mass.



A TRIO OF PIERSON INTRO-DUCTIONS



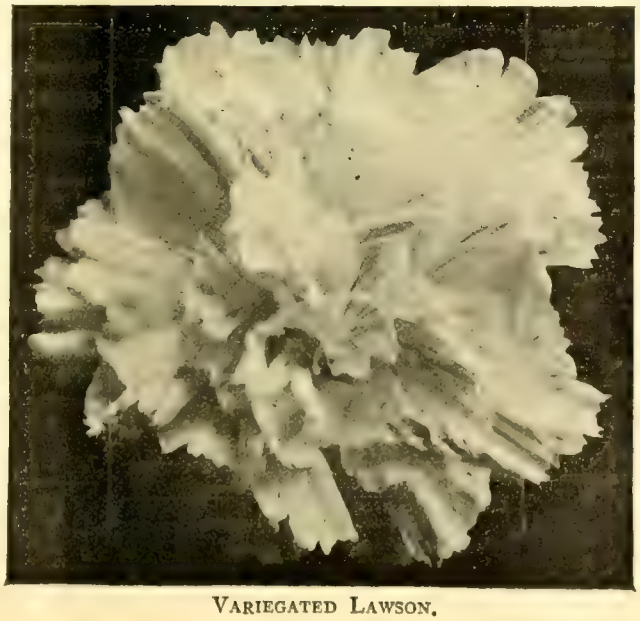


WHITE LAWSON



DAHEIM

The three varieties illustrated on this page need no introduction to our readers. Daheim, F. R. Pierson's phenomenal dark crimson, disseminated last season has, with good reason, been termed the Crimson Lawson. As a commercial and an exhibition flower, it is conceded to stand in the first rank. He who knows the Lawson — and who doesn't? — needs only to be told that the White Lawson, introduced last season and Variegated Lawson, now being disseminated, are counterparts of the parent variety in all respects except color and, particularly in the case of the last-named variety, a longer stem and less disposition to burst the calyx. Variegated Lawson is ivory-white with delicate carmine pencillings. Our issue of December 31st illustrated a house of this variety, a certificate of merit having just been given to it by the Gardeners' and Florists' Club of Boston.



VARIEGATED LAWSON.

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BULB FLOWERS.

W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market
Rates, all season through.

CANNAS.

Nathan Smith & Son, Adrian, Mich.

CARNATIONS.

Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
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Best introduction of the season.

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Nashua, N. H.,
Unrooted Cuttings.

Robert Craig, Lieut. Peary, Ethel Ward, The President, White Lawson, and all standard varieties. Rooted Cuttings.
Cottage Gardens Co., Inc.,
Queens, N. Y.

Patten & Co.,
Tewksbury, Mass.
Rooted Cuttings of all choice varieties.
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Chicago White, Fred Burki, Fiancee, Phyllis, Cardinal, Red Lawson, and Richmond Gem.
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Prize Winning Novelties.

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76, 78 Wabash Ave., Chicago.
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Strong Planting Canes, all best sorts, each $3.50.
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Foley Mfg. Co., W. 22d St., Chicago.
Hotbed Sash and Greenhouse Building Material. Send for Catalogue.

A. Dietsch Co.,
615 & 621 Sheffield Ave., Chicago
Hotbed sash, cypress and wash red cedar.

John C. Moninger Co.,
111–125 Blackhawk St., Chicago.
Hotbed sash and construction lumber.
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Adam Schillo Lumber Co.,
Weed & Hawthorne Aves., Chicago.
Hemlock, pine and pecky cypress. Cedar posts
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Manufacturers of the Kroeschell Boiler, the Great Fuel Saver.
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Plants tender or hardy.
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LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
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Johnson & Stokes, 217–219 Market St., Philadelphia.
High Grade Pips the year round.

Wm. Hagemann & Co., 55 Dey St., New York.
German Lily of the Valley.

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NEOSTYLE

Neostyle Co.,
146 Franklin St., Boston.

NICOTIANA SANDERÆ.

Sander & Son, Albans Eng.

NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2¼-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $ 50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

ORCHID FLOWERS.

Chas. W. McKellar, Chicago.

S. S. Pennock,
The Wholesale Florist of Philadelphia
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Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.
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Rose Richmond, per 100, $30; per 1000, $250. E. G. Hill Co., Richmond, Ind.

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Waban Rose Conservatories, Natick, Mass.
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John Breitmeyer's Sons, Detroit, Mich.
Rose La Detroit. Booking orders for early delivery. Send for prices.

New Rose Wellesley.—John N. May,
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ROSES GRAFTED.

Montrose Greenhouses,
Montrose, Mass.
All the best varieties.
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Keap St. Greenhouses,
Brooklyn, N. Y.
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1018 Market St., Philadelphia.
Aster Queen of Market. Phlox nana compacta. Salvia, Bonfire.

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Carlson Improved Asters.

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Chas. W. McKellar, Chicago.
Wieland & Risch, Chicago.
Chas. Millang, New York.
Welch Bros., Boston.
Frank Millang, Flower Growers' Market, 55–57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
John I. Raynor, New York.
W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York.
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
Leo Niessen Co., 1217 Arch St., Philadelphia.
J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S. Pennock, The Wholesale Florist of Philadelphia.
Fred Ehret, 1403 Fairmount Ave., Philadelphia. Established 1890.
Wietor Bros., 51 Wabash Ave., Chicago.
Wholesale Flower Growers.
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R. C. HAYDEN, Secr. and Treas. WILLIAM J. MUTH, Mgr.

The PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSOM ST., PHILADELPHIA

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We are Headquarters for

CARNATIONS

All the Fancy
HIGH GRADE VARIETIES

THE LEO NIESSEN CO.

1217 Arch St. - PHILADELPHIA

.White Lilac.

Samuel S. Pennock

The Wholesale Florist Of Philadelphia

Welch Bros.

Largest Wholesale Shippers of.....

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SOLE AGENTS FOR

FOLDING BOXES

Durable Economical

15 Province Street

TEL. MAIN 6267 BOSTON, MASS.

Hardy Cut Dagger and Fancy

FERNS

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of FLORISTS' SUPPLIES In the country

H.M.Robinson & Co.

8 & 11 PROVINCE ST.

Boston, Mass.

To Out of Town Buyers

When in want of a RELIABLE COMMISSION HOUSE in Phila., why not try

...BAKER...

THE Oldest Wholesale Florist in Philadelphia

Address: 1432 SO. PENN SQUARE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO } GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Jan. 23	ST. LOUIS Jan. 23	PHILA. Jan. 24	BOSTON Jan. 27
ROSES				
Am. Beauty, Fan. & Sp.	35 00 to 40 00	35 00 to 40 00	50 00 to 65 00	50 00 to 60 00
" Extra	.. to 25 00	15 00 to 25 00	40 00 to 50 00	25 00 to 40 00
" No. 1	15 00 to 20 00	6 00 to 12 00	25 00 to 35 00	12 00 to 20 00
" Lower grades	2 00 to 8 00	3 00 to 5 00	10 00 to 20 00	6 00 to .....
Bride & Maid Fan. & Sp.	10 00 to 14 00	..... to 10 00	15 00 to 16 50	..... to 16 00
" " Extra	.... to 10 00	..... to 8 00	.... to	10 00 to 12 00
" " No. 1	.... to 8 00	..... to 6 00	10 00 to 12 00	6 00 to 8 00
" " Lower gr.	4 00 to 6 00	4 00 to 5 00	5 00 to 8 00	2 00 to 4 00
Liberty, Fancy & Special	10 00 to 14 00	..... to 10 00	30 00 to 35 00	20.00 to 25 00
" extra	.. .. to 10 00	..... to 8 00	20.00 to 25 00	12 00 to 16 00
" No. 1	.... to 8 00	..... to 6 00	15 00 to 20 00	6 00 to 8.00
" Lower grades	4 00 to 6 00	4 00 to 5 00	8 00 to 10 00	3 00 to 4 00
Golden Gate } Best	10 00 to 14 00	8 00 to 10 00	12.00 to 15.00	.. .. to .....
Ivory } Medium	6 00 to 8 00	5.00 to 6.00	8 00 to 10 00	8 00 to 10 00
Chatenay } Culls	2 00 to 4 00	..... to 4 00	5 00 to 6 00	4 00 to 6.00
CARNATIONS				
Fancy Class	3 00 to 5 00	..... to 5 00	4.00 to 6.00	3 00 to 4 00
General Class	2 00 to 4 00	3.00 to 4 00	2 00 to 3 00	2 00 to 3 00
Lower Grades	1.00 to 2 00	1 50 to 2 00	1.50 to 2.00	1.00 to 1.50
VIOLETS				
Special	.50 to .75	.75 to 1.00	.75 to 1.00	.50 to .75
General	.... to	.50 to .75	.40 to .50	.35 to .50
Single	.25 to .75	.35 to .50	.40 to .60	.25 to .40
ORCHIDS				
Cattleyas	35 00 to 60 00	..... to	.. .. to 50 00	..... to 50 00
Cypripediums	12 50 to 17 00	.... to	..... to 15.00	10 00 to 12.50
BULBOUS				
Lilies	12 50 to 20 00	12 00 to 15 00	..... to 15.00	10 00 to 12 00
Lily of the Valley	2 00 to 4 00	3 00 to 4.00	3 00 to 5.00	2 00 to 3 00
Roman Hyacinths	2 00 to 4 00	2 00 to 3.00	1.50 to 3.00	1.00 to 2 00
Paper White Narcissus	2 00 to 4 00	3.00 to	2.00 to 3.00	1.00 to 2.00
Trumpet Narcissus	2 00 to 4 00	..... to	4 00 to 5.00	2 00 to 4 00
Tulips	2 00 to 5 00	..... to	3 00 to 4 00	2 00 to 4 00
Callas	10 00 to 12 50	10.00 to 12.00	12.50 to 15 00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4 00 to 10 00	2.00 to 6 00	3 00 to 6 00	2.00 to 4 00
Sweet Peas	.... to	.75 to	.75 to 1 50	75 to 1 00
Adiantum Cuneatum	75 to 1.00	..... to	..... to 1 00	.75 to 1.00
" Croweanum	..... to 1 25	..... to	1.25 to 1 50	..... to .....
" Farleyense	..... to	..... to	..... to 10 00	..... to .....
Smilax	.... to 12.50	..... to 15 00	12 50 to 15 00	12.00 to 16.00
Asparagus Plumosus; strings	35 00 to 50 00	25 00 to 50.00	35 00 to 50 00	35 00 to 50.00
" " bunches	25 00 to 35 00	..... to	50 00 to 75 00	35.00 to 50 00
" Sprengeri "	25 00 to 35 00	..... to	50 00 to 75 00	35 00 to 50 00
Stevia	.. .. to	..... to	..... to	..... to .....

BERGER BROTHERS Roses, Carnations

1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

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34 Hawley St. - BOSTON

HIGH GRADE
Southern Wild Smilax
(From a case to a carload)
At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

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37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty..... WHOLESALE GROWER of CUT FLOWERS

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS

PHILADELPHIA MARKET REPORT

Conditions improved somewhat during last week and things are now moving better. Carnations are not as plentiful and roses are also in smaller supply. It looks as if there would be considerable snap to things during the next few weeks and prices ought to stiffen considerably. Medium-length Beautys were in better demand than extras, and, in proportion, brought better prices. Libertys were in fair supply and went fairly well at normal prices. Brides and Bridesmaids were in fair supply and of good quality. What fancy prices were obtained were for Bridesmaids rather than for Brides. What few Killarneys in the market came from New York and sold pretty well. Golden Gates from local sources were in good supply and excellent quality and sold well. Sunrise, only a few around and in demand mainly for the sake of something different. Some La Detroit are being grown here, but not enough to make much impression on the market. More of it could be used. Orchids went in fair shape and at normal prices; white in best demand. Cypripediums are nearly over and the cattleya flood is also past, although crop will continue in moderate supply for some time yet. Violets slow. Gardenias fairly plentiful and went well. White lilac came in good and of extra fine quality. Demand very fair. Lily of the valley a bit slow. Paper white narcissi and Roman hyacinths about past, with prices stiffening a little. Daffodils now good and selling well. Some myosotis appeared last week and was salable. Lilies in good demand and in fair supply. Callas slow.

LOUISVILLE MARKET REPORT

Business the previous week has gotten back to about the usual run, after quite a while of dull business. Carnations of good quality are coming in in small quantities, and are far from being ample to supply the heavy demand. The supply of roses is also very short, and the quality is not very good, although the demand is keeping up well. In mignonette a pretty fair demand is realized, but the quality and supply are very irregular, some being very good, while others are very poor. Sweet peas of good quality are coming in in small quantities, and the demand is about equal to the supply. Violets and lily of the valley of good quality are in fair demand, and the quantity adequate. Sprays of asparagus are very hard to secure. The weather has been rather warm the past few days, making it very convenient for decorations, etc.

Charles F. Meyer, of New York, has been a recent visitor.

PITTSBURG MARKET REPORT

The weather the past week has been decidedly in favor of the florists, having considerable sunshine for three days, an unusual pleasure in Pittsburg at this season of the year, and fortunately most of the heavy snow melted away under the rays of a clear, bright sun.

Most of the florists report business fair, though a few of the smaller ones complain of dull business, especially so close after the holidays. Good scarlet carnations were scarce, most other varieties being plentiful. Good choice roses were not so plentiful, but supply of medium grades is equal to demand. Lilies are rather scarce and small, most growers holding back for Easter holidays. Visitors, D. MacRorie, South Orange, N. J., and Rudolph Hantzsch, Philadelphia, Pa.

BUFFALO MARKET REPORT

The market in Buffalo is better this week than it has been the last two weeks. Flowers are somewhat scarce and more in demand, — there is not much of a glut in anything. Bulbous stock is coming in pretty freely, and selling fairly well.

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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending Jan. 21, 1905.	First Half of Week ending Jan. 28, 1905.
ROSES		
Am. Beauty, fan. and sp	40.00 to 60.00	50.00 to 75.00
" extra	25.00 to 35.00	25.00 to 35.00
" No. 1	20.00 to 25.00	8.00 to 25.00
" Lower grades	8.00 to 10.00	2.00 to 10.00
Bride and Maid, fan. and sp	10.00 to 15.00	10.00 to 15.00
" " extra	8.00 to 10.00	8.00 to 12.00
" " No. 1	5.00 to 6.00	5.00 to 8.00
" " Lower gr	3.00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	25.00 to 40.00	25.00 to 40.00
" extra	15.00 to 20.00	15.00 to 20.00
" No. 1	6.00 to 10.00	6.00 to 10.00
" Lower gr	3.00 to 4.00	3.00 to 4.00
Golden Gate / Ivory / Chatenay — Best	12.00 to 15.00	12.00 to 15.00
Medium	6.00 to 8.00	6.00 to 8.00
Culls	3.00 to 4.00	3.00 to 4.00
CARNATIONS		
Lawson Class	4.00 to 8.00	4.00 to 8.00
General Class	2.00 to 3.00	2.00 to 3.00
Lower Grades	1.00 to 1.50	1.00 to 1.50
VIOLETS		
Special	.50 to .75	.50 to .75
General	.35 to .40	.35 to .50
Single	.25 to .50	.25 to .50
ORCHIDS		
Cattleyas	..... to	..... to .....
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	10.00 to 15.00	10.00 to 15.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Paper White Narcissus	1.50 to 2.00	1.50 to 2.00
Trumpet Narcissus	3.00 to 5.00	3.00 to 5.00
Tulips	2.00 to 5.00	2.00 to 5.00
Callas	6.00 to 8.00	6.00 to 12.00
MISCELLANEOUS		
Mignonette	2.00 to 8.00	2.00 to 8.00
Sweet Peas	1.00 to 2.00	1.00 to 2.00
Adiantum Cuneatum	.50 to 1.00	.50 to 1.00
" Croweanum	.50 to 1.50	.50 to 1.50
" Farleyense	..... to	..... to .....
Smilax	8.00 to 15.00	8.00 to 15.00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" " bunches	15.00 to 40.00	15.00 to 40.00
" Sprengeri "	12.00 to 25.00	12.00 to 25.00
Stevia	..... to	..... to .....
Lilac, per bunch	..... to	..... to .....

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Jan. 24	BALTIMORE Jan. 16	BUFFALO Jan. 24	PITTSBURG Jan. 24.
ROSES				
Am. Beauty, fan. and sp.	50.00 to 60.00	..... to 50.00	40 00 to 60 00	50 00 to 60 00
" extra	..... to 35 00	..... to 40 00	20 00 to 30.00	30 00 to 40 00
" No. 1	..... to 25.00	..... to 25 00	10 00 to 15.00	15 00 to 20 00
" Lower grades	4.00 to 8 00	6.00 to 15 00	3.00 to 6 00	6 00 to 10 00
Bride and Maid, fan. and sp.	10 00 to 12 00	..... to	12.00 to 15 00	15 00 to 18 00
" " extra	8 00 to 10.00	8.00 to 10.00	8.00 to 10.00	10 00 to 12 00
" " No. 1	6.00 to 8 00	6 00 to 8.00	5.00 to 6.00	6 00 to 8 00
" " Lower gr.	2.00 to	4.00 to 5.00	2 00 to 4.00	3 00 to 4 00
Liberty, fan. and sp.	8.00 to 10.00	..... to	12 00 to 15 00	20 00 to 25 00
" extra	6.00 to	..... to	8.00 to 10 00	12 00 to 15 00
" No. 1	5.00 to	..... to	5 00 to 6 00	6.00 to 10 00
" Lower gr.	2.00 to 3.00	..... to	3 00 to 5 00	..... to 4 00
Golden Gate, Ivory, Chatenay — Best	8.00 to 10.00	..... to 10.00	8.00 to 10 00	12 00 to 15 00
Golden Gate, Ivory, Chatenay — Medium	6.00 to	6.00 to 8 00	6 00 to 7.00	8 00 to 10 00
Golden Gate, Ivory, Chatenay — Culls	6.00 to 10.00	4.00 to 5.00	2 00 to 4.00	4.00 to 6 00
CARNATIONS				
Fancy Class	5.00 to 6.00	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00
General Class	3.00 to 4.00	2.00 to 3.00	2.00 to 2.50	..... to 2 00
Lower Grades	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00	..... to 1 00
VIOLETS				
Special	1.00 to	..... to	1.00 to 1.25	..... to 1 50
General	..... to .50	.50 to .75	.50 to .75	.75 to 1 00
Single	.50 to .75	.50 to .75	.50 to .75	.35 to .50
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to 15 00
BULBOUS				
Lilies	12.00 to 15.00	10.00 to 12.50	..... to 15 00	..... to 20 00
Lily of the Valley	4.00 to 5.00	..... to	3 00 to 5 00	3 00 to 4 00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	2 00 to 3 00	3 00 to 4 00
Paper White Narcissus	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4 00
Trumpet Narcissus	..... to	..... to	..... to	5 00 to 6 00
Tulips	..... to	..... to	3 00 to 4.00	3 00 to 5.00
Callas	10.00 to 15.00	6 00 to 10 00	8.00 to 10.00	15.00 to 20 00
MISCELLANEOUS				
Mignonette	..... to	3 00 to 4 00	3 00 to 5 00	2 00 to 5 00
Sweet Peas	1.00 to 1.50	1.00 to 1 50	.50 to .75	.35 to 1 00
Adiantum Cuneatum	..... to 1.00	..... to 1 00	.75 to 1 00	.75 to 1 00
" Croweanum	..... to	..... to	..... to 1 50	..... to 1 50
" Farleyense	..... to	..... to	8 00 to 12 00	..... to .....
Smilax	10.00 to 15.00	15 00 to 25 00	..... to 15 00	..... to 15 00
Asparagus Plumosus, strings	..... to 50 00	25 00 to 50 00	40 00 to 60 00	..... to 50 00
" " bunches	..... to 35.00	25.00 to 50 00	25 00 to 50.00	30 00 to 40 00
" Sprengeri "	..... to 25.00	25 00 to 50 00	25 00 to 40 00	..... to .....
Stevia	..... to	..... to	..... to	1 50 to ...
Lilac, per bunch	..... to	..... to	..... to	1 00 to ...



CARNATION "VICTORY" AT GUTTMAN AND WEBER'S, LYNBROOK, N. Y., IN JANUARY, 1905

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Random Notes Abroad

[No. 3]

I reached the land of the Kaiser on my wandering abroad on December 23, a season of the year that, as may easily be imagined, would furnish the least possible interest from a landscape point of view. Nevertheless, there is always something in a strange land cropping up now and again to interest, even if only in the way of comparison.

I soon noticed that the trees mentioned in my previous article as doing so well in the British Isles, were non-observable. In fact, I didn't see a single specimen of them during my stay in Germany of three months. I would imagine that this somewhat milder climate of the Fatherland would be more adapted for the successful cultivation of the trees referred to, than the climate of Great Britain.

A feature that strikes the visitor to Germany with more than a passing interest, if he is horticulturally inclined, is the fruit-tree-lined highways so conspicuous in parts of that country. The apple predominates, although some highways are planted with cherry trees, others again with plums, etc. As a rule, there are two rows of trees, one on each side of the road, most of them showing evidence of skillful training on the part of those responsible for them; but like everything else, some sections are better than others, partly on account of richer soil, and not a little attributable to the man in charge. Each tree has a clean stem to the first branches of from seven to eight feet, and they are quite uniform in this respect; after the desired number of main branches is secured, there is little further pruning necessary, excepting a limb now and again to maintain an airy, open head. Each section foreman has a number of highway miles of those trees to look after, with the necessary number of under-assistants to perform the manual labor in caring for same, and the keeping in repair, cleaning, and other necessary jobs for the maintenance of their respective sections of public roads in good order.

In the fall of the year the fruit of those trees is auctioned off to the highest bidder and as it stands on the tree; each purchaser to gather his own fruit, but always subject to the direction of the section foreman. The money thus collected from the annual sales of such fruit is more than enough to keep the roads in perfect order, and pay for labor and all expenses. This, however, is only true of sections advantageously situated as to good deep soil, etc., and where the maximum of care is given to other details.

The most popular apple there is Golden Pomane, standing in general esteem as a revenue producing apple with them, in much the same way as the Baldwin with us. There are many more varieties grown, and of considerable merit, but to much lesser extent. In the parts of the country where this industry is carried on extensively, embracing hundreds of miles of tree-lined roads, the scene when the trees are in blossom must be charming.

Although my journey across to the other side was primarily undertaken to escape an immediate association with cemeteries, yet on finding myself within easy distance of some of the most important, I was drawn into some of them but not from any desire of choosing a select spot for a future resting-place; in fact, I had a dread of this sort of job being thrust on me, preferring to leave it to the distant future and making such a selection on Uncle Sam's territory.

The first cemetery I visited in the Fatherland was in Mianz, and it was a fine one, quite extensive and well kept; planned on the English kitchen garden model, the main avenues cutting each other at right angles, leaving the burial ground proper in more or less square plots. Each avenue was lined with trees, maples, elms, lindens, and ashes, but each avenue had its own species entire, no mixture. They were splendidly cared for, all dead limbs being scrupulously cut out smooth and clean, and all scars painted.

It would seem that it is a universal custom in Germany to decorate the graves at Christmas time, few graves, old or new, being wanting in this respect, when I visited the cemetery above mentioned a week or two after Christmas. In some cases the designs were numerous and elaborate, giving at that time a flower-garden aspect on a large scale to the surroundings. The flowers, however, were mostly all artificial; the groundwork was constructed of laurel leaves, spruce branchlets, cupressus branchlets, and other greens; there were representation of most all kinds of flowers to be seen, and as to color and botanical details they were well done, the fabric used being apparently waxed linen. While the scene had been deprived considerably of the higher and finer sentiments on account of its artificiality, yet I couldn't help admiring its cheerfulness, and it also had the merit of being lasting.

One of the most elegant effects that I have seen was produced with the real article, Erica rubra and E. alba massed in clumps on the graves or otherwise deviced in figure forms, grown in four or five-inch pots and plunged in the earth to cover the pots from view, giving the impression that they were growing there; this decoration had the merit of being real, charming and lasting, for these ericas were uninjured in floral beauty though they were in the clumps and devices nearly three weeks ere I saw them. This erica was also seen extensively used for veranda and outside window decoration, grown or plunged in narrow green painted boxes, and a beautiful display it made with its abundance of tiny urn-shaped rose-pink drooping bells.

One of the faults that I observed in this otherwise fine cemetery, and which is a common fault in the general European cemeteries, was the raised mound construction of the individual grave, as varied in form as there are owners of graves apparently. The curbing constituting the outlines of each individual grave was made up of tiny seashells imbedded in cement, or the more substantial granite curbing, the whole looking like a gigantic rockery. I am satisfied that this idea of a cemetery lay-out is a mistaken one. Give me the smooth lawn style of Yankee-land.

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Between points where no general special is in force, plants packed as above may be taken at 20 per cent less than merchandise rates, pound rates, minimum charge 35 cents for each company carrying, prepaid or guaranteed.

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Between points where no general special is in force, roots packed as above may be taken at 20 per cent less than merchandise rates, pound rates, minimum charge of 35 cents for each company carrying, prepaid or guaranteed.

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The following paster is used by a number of large shippers, and its adoption is recommended to all who desire to take advantage of the concession.

This box is billed at special rate, twenty per cent less than merchandise rates, by a special arrangement agreed to by the Adams, American, United States, National, Northern Pacific, Pacific, Suther and Wells, Fargo & Co.

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Lily of the Valley, pips and clumps
Lilium Auratum and Speciosum, all sorts

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WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE

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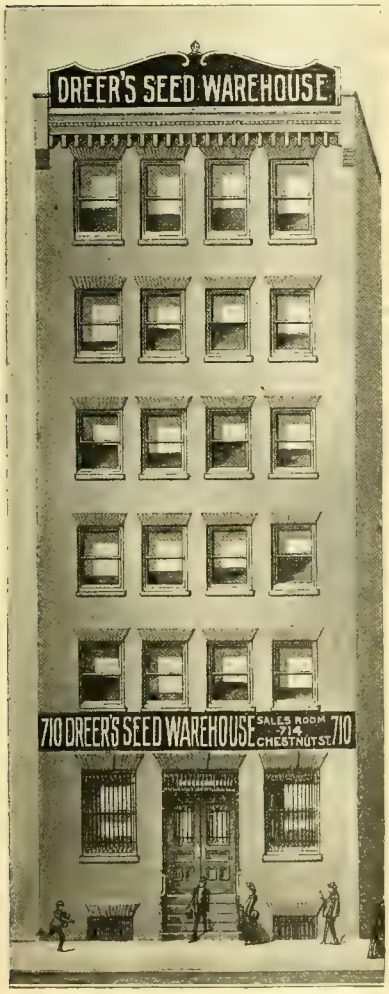
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DREER'S NEW WAREHOUSE



Under the able guidance of Mr. McKubbin, we were given the privilege of a look through the new storage warehouse for seeds and sundries which the Dreer firm has erected at 7th and Locust as an annex to their 7th and Chestnut Sts. establishment.

The building is six stories, with basement and sub-cellar about 80 × 25 running through from Locust to Orange St., and is of the most substantial construction — immense beams running from wall to wall and all pillar obstructions avoided. The elevator is the latest style Morse electric, and is bricked in on every floor and has substantial iron-bound doors, making it fireproof. A private telephone system goes all over the building and is also connected with a similar system in the Chestnut Street store, thus reaching all the heads of departments. The ventilation system is very complete on all floors, there being air shafts at intervals along the upper part of the walls in addition to wide, airy windows at both ends of the building.

The sub-cellar is to be used for the storage of potatoes, bulbs, etc., and is cool and frost-proof — an ideal place for the purpose. The basement is intended for incubators, fertilizers, and other sundries. Heavy seeds will be on the first floor, while the second is to be devoted entirely to flower seeds. Grass and garden seeds will be on the third, fourth, and fifth floors, while the sixth will have the power cleaning mills. A special building has been erected on the roof as a power house. It will contain the motors for driving the elevator and cleaning mills.

Mr. William F. Dreer, the head of the firm, has given close personal attention to planning all the details of the building and has been ably assisted by Mr. Thilow and other heads of departments. The result is an ideal warehouse affording much needed facilities for the rapidly expanding business. Congratulations are in order and are hereby extended.

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The Gardener and Landscape Gardening

Read before the Gardeners' and Florists' Club of Boston by J. Woodward Manning

(Continued from last week's issue)

Suggestions ought always to be in order and should be received in the most liberal spirit; nine times out of ten they will be so received; the tenth instance would be a reflection on the landscape architect.

The landscape architect may feel that the gardener is merely a caretaker, his duties being to simply carry out his design; he is merely a workman, and that the landscape architect is alone responsible for and entitled to credit for what results: some of this is true, but much is either false or should be. There may be two reasons for this, one that the landscape architect has not reached that stage where he can recognize merit in any one else than himself, or that he is justified in the opinion that the limits of usefulness of a particular gardener is that of a caretaker; in the first place the gardener is very likely to succeed the landscape architect; in the other, the so-called gardener will never make much headway in that line of trade. I fear many embryo landscape architects may never become good gardeners; I am also convinced that many gardeners will broaden their capabilities enough to preclude the necessity of the landscape architect on places where intricate problems do not exist. If, however, the problem involves complex questions of design and engineering, it is better that such studies embracing economy and utility as well, should be in the hands of one whose constant and proved practical solution of such matters can handle the problem broadly, understandingyl and effectively; your own experience in assisting him to attain the object in view will be an education in itself and aid you later in handling less complicated problems for your employer when you have the opportunity. Perfect harmony between the landscape architect and the gardener is essential to enable the latter to know what is sought for; eventually the problem will come under the gardener's care, and it can be no reflection to the gardener to be responsible for the final results that make the picture complete. By such harmonious relations instances are numerous in which the landscape architect gets all the credit due him, but the gardener gains even greater laurels in being able to execute the details.

Many gardeners feel that their duties are altogether too varied now and their present efforts are not sufficiently appreciated as it is. It cannot be denied that this may be so, but may this not be due to yourself largely? Is it not because that there is a lack of varied and interesting results, this may or may not be possible according to opportunities? Do you make the most of such whenever they occur? Is not your greatest opportunity in so broadening your knowledge and applying it that your worth may have greater recognition? If your duties are so numerous and varied that gardening must of necessity be a minor matter, you may still broaden your knowledge as far as possible, but look to it that as soon as may be you obtain a situation elsewhere, that your gardening propensities may be better appreciated and encouraged. The broadening interest in gardening that is being produced by the numerous horticultural books and papers now existing or promised, is but a forerunner of what is to follow. I believe it indisputable that New England will eventually become a center of as intense interest in gardening on the part of the householder as well as the gardener as is now the case in old England, with the result at least that the gardener will, on many estates, be given the opportunity to apply his exclusive attention to his profession; hence the importance to broaden your knowledge to meet the demand.

Don't fall into the common error of following a rut of work, planting only what you have planted in the past, repeating the same treatment in the most perfunctory manner; don't feel that you should necessarily be directed by the owner without taking the initiative when opportunity presents; this may be unavoidable, perhaps the fault is yours.

The solving of the problem of opportunity I consider of the highest importance for the gardener in showing his worth, and this problem is that fundamental basis of landscape gardening that I am advising you to practice, where you study to make the most of what you have to work with, rather than to follow the lead of some rival, particularly when conditions may be so different as to make such an attempt ludicrous. First study the place as a whole and convince yourself at the outset as to what the limitations must be. The natural conditions ought to solve the problem largely. If a bare, open area, then you must produce the future picture; if possessing rugged or picturesque features, arrive at an early decision as to whether such conditions are not the forerunner of the policy you ought to pursue, and if so, use every precaution to preserve what nature may be abundantly supplying; an old tree may be favorably placed to give emphasis to a view; the study of how to add a bit of planting to aid the effect and complete the picture or to improve by a little judicious thinning with due regard to the preservation of the best, will be interesting; perhaps you can save an outcropping ledge that might ordinarily be considered an encumbrance when it may be the opportunity to form an interesting feature of itself, or, with proper planting form the nucleus of something of harmonious interest; the use of the greatest discretion in clearing underbrush in a bit of woods with a careful discernment as to whether the native growth does not of itself have ornamental value in better harmony and attractiveness than could be produced artificially; even a mass of clinging poison ivy clambering over a sturdy tree trunk may perhaps be preserved, provided you supply planting at the base, of an impenetrable nature to preclude any danger. Recognize and study the value of our common native plants, our ferns, native roses, our own wild asters and columbines, witch hazels and many others that the landscape architect has had sufficient discernment to take advantage of. Many of these plants are adapted to shady or sterile situations where effort to establish exotic plants would be disappointing; this by no means, however, precludes the use of the exotics wherever their proper place may be. You can get lots of good points from nature on the grouping and combination of plants that will work to advantage under varied conditions. Carefully study the adaptability of plants; don't place rhododendron and azalea beds in sunny, unprotected, dry situations where annual expense will be required to provide the needed protection artificially, and which can only partially produce the desired results and eventually discourage your employer in such expenses. Think out the lawn problems. Good taste is no longer in sympathy with dotting the surface of a well-kept lawn, with individual trees out of proportion to its real needs, with the result of breaking up its continuity, lessening its apparent size, and rendering it more expensive to maintain. A few dignified specimens may be desirable, but groups or masses arranged with a double purpose of adding depth, or to serve as a framework to important vistas over the lawn, or the equally important service of acting as screens to objectionable views or divisions to various portions of the estate constitute the best treatment. Shrubs too, should not unnecessarily break up the lawn, but should be grouped or massed on the boundaries or against the base of tree masses, often serving the double purpose of screen and ornament. Again, planting at the base of buildings may add much to their attractiveness; the grouping of the shrubs should be studied out with a view to making harmonious combinations of foliage and with an avoidance of spottiness; an arboretum of shrubs should not be attempted in a private place, but rather strive to make the more effective mass effects with due regard to the proper use of occasional selected individuals whose character should be so emphasized. Do not overlook the advantage of using some of the vigorous perennials in such shrub borders; for instance, the silphiums, eulalias, helianthuses and others, may be used more effectively in this way than in a strictly perennial border, and the blooming season of the shrub border can be materially lengthened thereby. Give the area of the lawn careful study and limit the closely trimmed portion to the immediate vicinity of the buildings or paths or the strictly formal gardens; make easy transitions from this more expensive greensward to less frequently trimmed, less used lawns, and finally to a field condition on those portions of the estate where such would be in better keeping with the needs and uses; such cases improve the opportunity for the naturalization of hardy bulbs and wild flowers that would lend added interest at the spring season when such things are most appreciated. How many of you apply your old bulbs thus, or better still, buy an inexpensive class of bulbs for this purpose alone. You can well

put much study into all these lawn problems, and the questions of shutting out objectionable views, retaining distant vistas, viewing the same lawn from distant and varied points, making properly framed glimpses between tree trunks under their canopy of foliage or through their branches and many other such details, comprise the very essence of the highest types of landscape gardening. A vast improvement has been accomplished by abandoning the meaningless fancy beds cut into the lawn, destroying its continuity; their use is properly relegated to one spot, perhaps adjacent to the house, or better in a formal garden set aside for that purpose. How much better to carry the eye over an unbroken turf to the lawn margins made interesting by shrub, herbaceous or tree borders than the incongruity of placing meaningless geometrical beds in the foreground to such an interesting picture.

The formal garden frequently is a most important feature of a place, but its size, situation, and effect is a serious problem; it is difficult to maintain a constant flower effect therein; it is the most expensive form of gardening; it should usually be adjacent to the residence and form rarely an outdoor apartment of the home; its interest is as much centered in its formal design as in the details of its makeup, and unless it is particularly good the disappointments may be serious. Be careful, therefore, in recommending such a feature unless you are convinced it may be harmonious with the surroundings, reasonably demanded, and that the expense may be justified in the results gained.

The herbaceous border is here to stay. It should be extended to the full requirements, as in addition to its ornamental value it is a very economical supply of cut flowers, but use great care in the selection of varieties, as in the long lists offered there are many kinds that are better adapted to naturalizing or grouping in the shrub borders or elsewhere than to being placed in the herbaceous border proper. The various forms of the European columbine (Aquilegia vulgaris) are all good herbaceous border plants, but our native species Aquilegia Canadensis shows to far better advantage in its natural positions in the crevices of rocks in ledges, and moreover, is more permanent here than in the border; many native asters are very much more effective naturalized in the woods or encouraged in wilder portions of the estate than they are in the border, and it is far better that they and such other gross feeders as the better types of goldenrods and knotweeds be so planted that this drawback may not affect their neighbors. Other perennials of so-called miffy nature can be very successfully cultivated, provided you give them the natural conditions of perfect drainage, sun exposure, or otherwise meet their requirements. Edelweiss, (Leontopodium alpinum), the Cromwell (Lithospermum prostratum), the gentianella (Gentiana acaulis) are with a long list of other examples, plants requiring this special attention to attain the greatest success. The herbaceous border itself must be carefully thought out as to the subjects used and their grouping; study the avoidance of spotty planting above all things, but do not forget foliage combinations as well as flower harmony of color, and do not depend absolutely on perennials in such a border, otherwise there will be a monotony in the repetition of the same effect from year to year; use annuals and tender plants in liberal quantities to vary each season from another; moreover, a perennial border without a proper background seldom shows to the best advantage.

In naturalizing, large masses are generally essential for best results, but this use of perennial bulbs and herbs is a fascinating study to yourself and your employer, making it possible to give great charm to portions of the grounds that may have been previously neglected. Without considering bulbs now think how attractive the moist situation may be made with the introduction of colonies of the ever-blooming swamp forget-me-not (Myosotis palustris semperflorens); a large clump of the Gladwin iris with its yellow flowers, spreading masses of Lysimachia clethroides; to what advantage a dry waste corner could be improved with the plume poppy (Bocconia cordata) or the giant knotweed (Polygonum cuspidatum), both of which you would not dare to plant in the rich soils of the garden; but really I must break away from this line of thought to take up others. Rockeries are dangerous features to fool with, but, if you know how, can be made most interesting features; aside, however, from the danger of error in their structural details is that of introducing them at all if they are not in harmony.

The vegetable garden can usually be improved upon and at times may be made an ornamental feature of the place. Where else could you raise to better advantage gladioli, lines of batchelor's buttons and numerous other cut flowers and where more easily cultivate them; and is it not important that the flower display elsewhere should be free from the otherwise heavy house cutting demands?

These hints may serve as suggestions as to how you may practice practical landscape gardening, and moreover, you may find this the solution of the problem of expenditures whereby you are producing the maximum of results with a minimum of cash, a strong factor of appeal to your employer.

Do not allow the tendency to follow paths of earlier training all your days, prevent your varying your methods or ideals, if not adapted to our present needs or the requirements of your employer; doubtless this earlier training was fully up to date for those times, but with new methods and new ideals you must give such careful attention and apply them to your personal use. Immense strides are being made in horticulture; the painstaking methods of the old gardening training of the European countries is excellent in the same way that the study of botany is excellent training even if in after life you make little application of the technical knowledge. No country at present is advancing in horticulture as fast as this, however, especially in the line of new investigation; it is true that much time and money has been spent by the experiment stations and the government departments in lines that have seemingly been a waste. It is not easy for the college professor to abandon theory for practice, yet we are hardly in a position to criticise him for his accurate investigations which are bound in the long run to tell, and already far-reaching results are being accomplished. Pure mushroom culture is a recent and very important result. Nitro-culture will prove of far wider importance. Fertilizer investigations, the study of soils, irrigation and forestry; the remedies for plant diseases; the control of insect pests, all are very largely attributable to government effort, and this knowledge is yours for the asking; all are indirectly or perhaps directly connected with landscape gardening.

Another problem is that of the greenhouse or conservatory on a private place. Is it not true that in many ways the expense involved, its detraction from giving attention to other problems, is disproportionate to results obtained? Every one loves flowers in winter; they are a necessity, but is there not a tendency to devote too much expenditure to this feature? Are the conservatories visited by the owner as frequently after the second year as before? Does his or her interest keep active, or is it true that after a time the expense of maintenance becomes a burden to the owner, and may it not lead to a feeling that results hardly warrant the cost and perhaps to the undoing of the gardener? If the owner's interest is centered in the conservatories, that feature may become the dominating one, though there would be a question even then if the estate does not have opportunities for development which the owner may have not recognized and which it is your place to be able to take advantage of and encourage to the owner's pleasure and appreciation. Greenhouse work is tantalizing, imperative usually, and I by no means wish to discourage it, but I do wish to show that it may be fatal for you to neglect your outside opportunities. If you have your work so well under hand that the greenhouse in no way interferes with your making the most of your opportunities, little criticism can be raised; but on the other hand, if the use is that of producing plants for bedding effects that had, better not be attempted on the place under your care, then that use of the greenhouse should be changed. Is it not worth your while to make the most of your opportunity to study better and more varied effects in the greenhouse also? Conservatory treatment is subject to the same criticism as the treatment of the ordinary estate, *i.e.* that of too much monotony. The regulation palms, cycads, dracænas, rubber-plants, carried to that extent that nine times out of ten a list may be made in advance of what is to be seen in an unvisited conservatory, tends to destroy interest. Introduce some unique things, study better displays of what you have in far greater variety. Take advantage of the suggestion made a few years since by the Bussey Institution at the annual spring exhibitions of the Massachusetts Horticultural Society, of forcing native or introduced perennials and shrubs. No great expense may be necessary to do this, and the interest in the gardener's work will be perennial with the owner.

The problem of your success in your profession, therefore, is that of your willingness to study and think and work, to take the utmost advantage of your opportunities presented in the problems under your care, and to apply the fundamental principles of landscape gardening, *i.e.*, good taste, so persistently as to convince your employer of your indispensable qualities which is the measure of value in every line of effort.

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A GARDEN CITY

When we speak of a garden city our thoughts turn instinctively to those cities of the Orient mentioned in biblical literature, where each citizen had his own "Vine and fig-tree, none daring to make them afraid," and now in these days of high pressure, when cities like mushrooms grow, it is with pleasure we read an account describing the evolution of a city in Hitchin, England, where the inhabitants will be able to have at least a full share of fresh air and sunshine.

The chief point, however, is that it is to be a city where Flora and Sylva shall in some measure sway the hearts of the people and where horticulture may be freely enjoyed by all who choose to take up their abode there.

The following facts will give one an idea of the scheme: — Four thousand acres of beautiful country have been purchased by a company on which to build a town. The land is now being let very readily for a price which yields about 50 per cent on the first cost, so there will be an enormous sum to be disposed of; this is to be devoted to laying out streets, parks, and gardens, to education, etc.

All the streets will have margins of not less than seven feet of grass between the road and pavement in which trees and shrubs are to be planted. Out of fifty miles that have to be done, only two as yet are completed. All the streets will radiate from a central square, and fine sylvan views will be obtained from every part of the city. The experiment of freely planting fruit trees in the streets will be tried, and a collection of the best herbaceous plants in cultivation is to be grown in a large area especially set aside with a view to showing the people what to plant, while seventy-seven acres of moorland will be for a wild-garden, where a large collection of British plants will find a home. A large tea-garden with lakes and pergolas is in course of formation at present. Surely the above project when completed will be worthy of all approval and will tend much to make the "City beautiful." E. MATTHEWS.

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LIST OF PATENTS

Issued January 10, 1905

Fig. 1

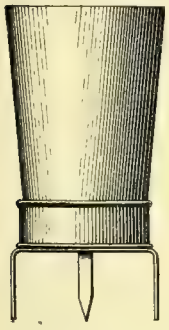


Fig. 2.



779,924, Flower-holder. Peter Gommel, Rochester, N. Y.

1. A flower-holder comprising a cup portion, a base for holding the same comprising a ring portion and cross-bars secured to the lower edge thereof, the ends of said bars being turned downwardly to form ground-engaging points.

2. A flower-holder comprising a liquid receptacle and a base therefor, holding means for the receptacle comprising horizontally-arranged bars secured to the base, their outer ends being turned downwardly outside the circumference of the receptacle, and thus forming broad ground-engaging means for preventing the tipping of the holder.

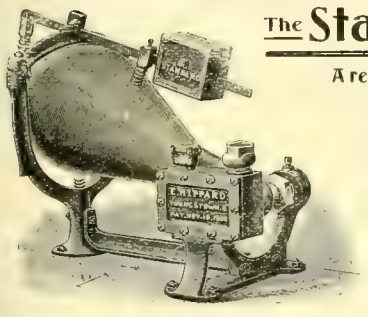
3. As a new article of manufacture a flower holder comprising a cup portion having a base, and cross-bars secured to the lower edge of said base, the ends of said bars being turned downwardly to form ground-engaging points.

779,791, Method of Freeing the Soil, Trees, or Plants from Harmful Animals. Sigismund Lokuciejewsky, Odessa, Russia.

779,829, Step-Ladder. William M. Anderson, Santa Paula, Cal.

779,870, Cultivator for Trees. Donald Robertson, Windsor, New South Wales, Australia.

779,957, Scissors. Allie M Minter, Bridgeport, Conn.



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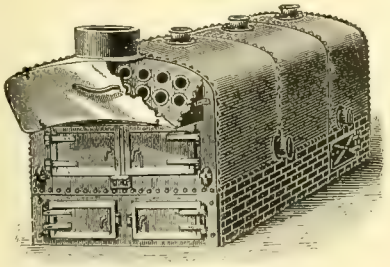
List of Patents issued January 17, 1905

780,218, Cultivator. William McCloskey, Essex, Canada, assignor of one-half to Edmund I. Scully, Windsor, Canada.

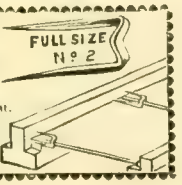
780,430, Cultivator. Frank Kress, Pisgah, Iowa.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G., Washington, D. C., by mentioning HORTICULTURE.

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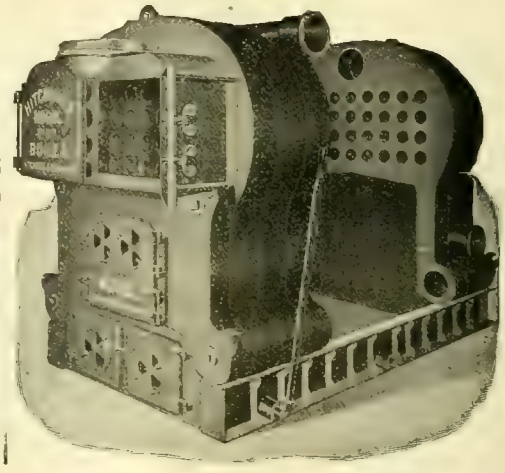
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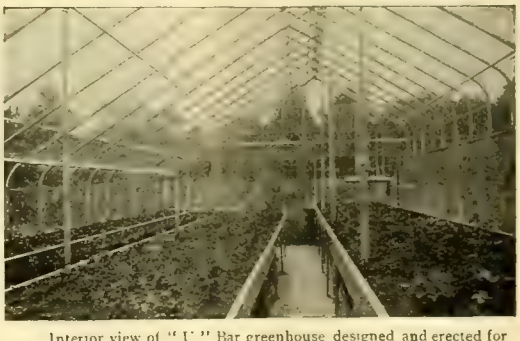
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HORTICULTURE

Vol. I - BOSTON AND CHICAGO—JANUARY 28, 1905 - No. 9

AMERICAN CARNATION SOCIETY



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AMERICAN CARNATION SOCIETY

BOSTON

SELECTED AS THE NEXT MEETING PLACE

PETER FISHER

ELECTED PRESIDENT

The Annual Meeting of the American Carnation Society opened, according to custom, with a brief preliminary session at ten o'clock Wednesday forenoon, January 25. The time up to one o'clock was fully occupied in the work of staging the exhibits, and at the appointed hour the judges began their labors. Two of the exhibitors only, Messrs. R. Witterstaetter and W. J. Palmer & Son, arrived too late for judging. The formal session of the society opened at 7.30 P.M., when Mr. Howard S. Taylor was introduced and made an address of welcome on behalf of the city of Chicago. He said:

Mr. Chairman, Ladies, Gentlemen: — I am sure if Mayor Harrison could have known, if he could have seen the specimens of beauty in the other room and this room, he would have much preferred to come and deliver his address of welcome himself. However, he has asked me as his personal representative to be present this evening and to tender his congratulations to this association of carnation growers and lovers and bid the visiting delegates a hearty welcome to Chicago. Allow me to say in reference to the remark of your chairman in introducing me as the prosecuting attorney of the city of Chicago, that I have not been alarmed by this congress of ladies and gentlemen and have taken no extra police precautions on your account. I have thought that when you go away you will take nothing with you except our hearts. As a student of things, allow me to say that since I have measured in some way the scientific advancement of floriculture as evidenced by this magnificent display, I have reflected upon the patience and ingenuity of the culturists that lie back of it all. I venture to say there are few ministries in nature more soothing, more satisfying, and solidly beneficial than the business you are engaged in. The mayor has desired me to say in this welcome to you that we speak forty-three languages here and would be glad to tell our welcome in each. I feel, however, this would embarrass you somewhat, so will put our welcome in plain English, and say to you, visiting ladies and gentlemen, that you are most heartily welcome to the city of Chicago. I must not detain you longer. I am much obliged to you for the opportunity to address you, to see this great show, and to mingle for a little while in this pleasant company. (Applause).

Mr. E. G. Hill made response on behalf of the society, as follows:

Mr. Taylor and Gentlemen: The chairman has tendered me a very handsome compliment in selecting me to respond to this kindly welcome. I only wish I possessed the gift of speech, in the measure at least, that Mr. Taylor possesses it, but you know we gardeners are not gifted in that line. Mr. Carmody says, however, that the gardener is the best listener in the world and likes to listen to ladies especially. Several



PETER FISHER
President-elect

years ago he got into trouble on this account, the same authority says; he bit an apple and the taste of that apple and sting of that bite has never been out of the gardener's mouth from that day to this. We florists, when we come to Chicago, receive a most royal welcome. I can say that we are entertained and treated most hospitably. City officials in the past have gone out of their way to confer favors upon florists. I think you in a measure appreciate our art. I know you are generous and kind hearted and look for the time when your generosity will recoil in measure upon you, because you know it takes good fertilizer to produce handsome carnations. I read in the St. Louis papers that you are sending all that material down to St. Louis (laughter). That is not a fair deal. If the St. Louis people come here and whip your carnation men, why, the city officials of the drainage board will be responsible. A few years ago we had small carnations, flowers perhaps an inch and a half across. When you look at this exhibition I think even the laymen not devoted to carnations will concede that great progress has been made. I want to say that we cordially appreciate your words of welcome here and will behave ourselves. I thank you for your kind welcome.

President Hartshorne then read his annual address, which was received with approving applause. This address, together with the reports of the secretary and treasurer which followed it, are given in full in the following pages of this paper. Mr. H. M. Altick next made report on behalf of the McKinley memorial committee, and by a unanimous vote the committee's work was endorsed and ordered continued. Prof. J. H. Hasselbring of the University of Chicago, then presented the valuable paper on Carnation Diseases which appears in full in this issue, and the discussion which followed was participated in by Messrs. W. N. Rudd, C. W. Ward, Fred. Dorner, and others. A vote of thanks was accorded Prof. Hasselbring.

The Board of Directors reported in favor of Boston as the next meeting place of the society. Nomination of officers resulted in the naming of Peter Fisher, Ellis, Mass., for President; J. H. Dunlop, Toronto, Ont., for Vice-President; Albert M. Herr, Lancaster, Pa., for Secretary; and Fred. Dorner, Jr., Lafayette, Ind., for Treasurer. One director, William Weber, Oakland, Md., was renominated; William Nicholson, Framingham, Mass., was nominated as judge for the full term of three years, and Eugene Dailledouse, Brooklyn, N. Y., as judge to take the place of William Scott, who was unable to serve on account of sickness.

Address of President Hartshorne

Ladies and Gentlemen, and Members of the American Carnation Society: What little I wish to say to you must be fragmentary, owing to my desire to avoid boring you with a long address. We meet to-day in our fourteenth annual convention. My predecessor has said, did he believe in signs and omens he would be fearful of the success of his — the thirteenth annual meeting. Now I would say, were I a believer in them, I would be fearful of what was going to happen to me, as I have the honor of being your thirteenth President. But if I may judge from the many old-time faces before me and such a goodly sprinkling of enthusiastic new ones, the welfare of our society and the success of this meeting is not to suffer on that account. Some of you have come a thousand miles or more to pay homage to (dare I say "The Queen"), well, to many of us the Queen of Flowers — the Carnation.

This society has done a great work since its organization in promoting these exhibitions, offering prizes and certificates for new as well as old carnations, thus making our hybridists work harder than ever to keep pace and meet the ideals of our judges. Without this society I am afraid we would still be plodding along in a marking-time fashion as we were fifteen to twenty years ago. It is just fourteen years ago since the dissemination of that once great carnation, Daybreak, which really marked a new era in carnationdom. While several good varieties made a bid for our favor in the following year, it was nine years before Mr. Fisher gave us the Mrs. Lawson, the next real sensation. After that came Prosperity, a variety that is still in a class by itself on account of its distinctiveness. Then came Enchantress, and now Lady Bountiful and Fiancee; therefore, it looks to me that, from now on, it is reasonable to expect a new wonder about every year. While we cannot all raise a wonder, each individual member of this society can take some share of the credit for what has been done in advancing the carnation in general, for you support the society and the society enthuses and stimulates the hybridizer to keep pegging away.

That gentleman is now having some valuable help from the sportive tendencies of what were at one time his seedlings, but now good standard varieties. The Mrs. Lawson, for instance, has given us the White Lawson. There is no question but what this variety, now thoroughly fixed, will become a valuable standard. It originated in two or three different establishments, and I believe each one of them is conceded to be identical with the other. It was a good thing for the trade when the owners of these several sports got together and agreed on one name for all of them. There are several other sports which I believe identical in every respect with each other, now being registered with the society under different names. This should be stopped, as it only causes confusion to the trade in general.

One matter that has been discussed pro and con in our past conventions is relative to judging seedlings at various seasons, and another one regarding the best month in which to hold our annual exhibition, both of which are worthy of our consideration. I wish to offer a few suggestions along these lines. I would like to have the society go on record as favoring an annual All American Flower Show to be held in November and in a different city each year. I believe the time is ripe for it. Perhaps the Society of American Florists or the World's Fair Flower Show Association could be induced to take the matter up. If there was such an exhibition it would enable us to see the new carnations in the fall as well as at our own grand show later in the season, without any extra expense to the American Carnation Society. We could offer our certificates there, which might be termed Fall Certificates, and also collect entry fee the same as usual. This in a measure would cover the part relative to judging seedlings at different seasons, and be a great benefit to introducer and buyer alike of a new variety as well as to the trade in general.

And we need not be so particular as to the date for our own exhibition. Here is another suggestion. If a certain grower has a new carnation for distribution to the trade, give him the chance of receiving our endorsement or otherwise of its commercial value, by applying to our president for a committee of judges or practical growers to visit his establishment and inspect the variety growing, say two or three times during the season. The committee could consist of three good men living in his (the grower's) vicinity. I believe this plan is followed by the New York Florists' Club. It would be just as easy to get the committees for this purpose as it is for the American Chrysanthemum Society to secure its several committees, to meet every Saturday for two or three months.

One feature of the carnation plant we can congratulate ourselves upon more than any other I believe, is the healthiness of the acknowledged present-day standard varieties. We do not hear so much about stem rot, bacteria, rust, etc., as we did four or five years ago. The reason for this I lay to the fact that the hybridist has refrained from using for crossing purposes varieties that are subject to those diseases and also to our semi-indoor mode of culture, early planting, which I recommended in my essay at the Buffalo meeting.

The prices obtained for carnation blooms the past few years has hardly kept pace with the improvement and the quality of them. When we held our convention in this city seven years ago, fancy carnations were bringing eight cents at the holidays and occasionally higher prices were heard of. The best varieties at that time were Jubilee, Mayor Pingree, Mrs. McBirney, and Mrs. George M. Bradt. The same prices were realized this season for improved varieties that were better grown, but the years between rarely saw the top figures, and yet the cost of production is much higher. The reason for this state of affairs is no doubt due to over-production, but when you take into consideration that there are a million more plants grown in this vicinity alone, producing about fourteen million a year more blooms for this, the Chicago market, we can hardly be surprised at the non-advancement of the price. Still I doubt if we have much reason to complain, for, during that period we have had no panic in the business world and no serious slump in flowerdom, and the prospects of the future, I think, are encouraging. Personally I think we are on the eve of an unusually prosperous era and I trust the carnationists will reap their share of the benefits.

Since we last met in Chicago, we have been to Philadelphia, Buffalo, and Baltimore, each one of these cities approximately a thousand miles from the western carnation belt, making it very difficult for growers in that vicinity to make creditable showings. In the years following the convention mentioned, we went to Indianapolis, Brooklyn, Detroit, and now Chicago. This is as it should be. Now let us go east again, the middle east, or even enter new fields, as I believe great benefits are derived by our society in spreading the knowledge of our work and showing the products of our skill in any city within a reasonable shipping distance of a carnation center.

The growth of the carnation's popularity among all classes of people, should be very gratifying to us, and still I believe it to be only in its infancy. One thing more than all others that will, I am sure, increase this popularity in the future, is that grand body the Carnation League of America with 3,000,000 members each wearing a carnation on January 29th, as a tribute to the memory of our beloved President McKinley.

We shall soon hear the report of the judges of the present exhibition. Some of us will be disappointed; others will experience those thrills of joy which victory brings. If you are a new exhibitor and are beaten, do not be discouraged. Take your defeat with good grace, find out if possible the weak points of your exhibit, and return home with a determination to overcome them next year.

Before concluding, I beg of you, one and all, to attend the sessions and stay with them until each one is over; help us to get through with what business we have and make this convention what it ought to be, the greatest yet. After the sessions are over, there will be plenty of time to explode your pent-up enthusiasm. That your Chicago friends will be with you and stay with you to the end, is a foregone conclusion. Now to business.

Report of the Secretary

Mr. President and Gentlemen of the American Carnation Society:

Your secretary reports having issued the regular printed matter of this society during the past year and mailing the same to all the members of the society.

The attempt was made of issuing the full Premium List early in the fall and mailing the same at two different times, once in October and again in January. The idea was to give the advertisers in this list the advantage of a double circulation. The attempt can hardly be called a success, as it was almost impossible to get advertising and specials together in September; they were received so slowly that it came to be a rush job and an error or two in the copy was the result. These were corrected in the issue sent out in January, and a few additions made to the list in the form of a supplement.

We are as yet without a permanent stenographer (that is, the same stenographer for every meeting) and until we get one, our reports are bound to be incomplete in some respect. We were fortunate in securing at the last meeting and for this one, stenographers who have had some experience in Horticultural matters, but to give us a complete report such as this society should have, requires a stenographer who will be with us year after year, get acquainted with us, know our names, our voices, and the meaning of all the terms we use.

There were during the year, the usual number of complaints as to mail matter not reaching the members, in several instances four pieces having been sent the same party. In justice to myself I want to say that all regular matter, such as circulars, premium lists, etc., are addressed by a machine that makes it a mechanical impossibility to miss any one.

While we are not by any means in financial straits, yet there are so many things the society could do with ample funds back of it, that we should use every endeavor to increase our permanent fund and our membership as well. For the latter I would suggest a display adv. gotten up with a cut of the front cover of our annual report and inserted in the trade papers the week the report is sent out, at a cost not to exceed $5 for each paper used, and one insertion only. With the papers presented for this meeting our report ought to be a good one, and a strong, pictured, good sized adv. ought to pay well in the increase of our membership.

Any member who has either criticism or new ideas for the advancement of this society can have the same brought before the Board of Directors promptly by sending them in writing to the secretary either at this meeting or any time during the year. There is no stop to the development of the Carnation; there can be none to this, its patron society, but we need the assistance of every member as well as the Board of Directors and other officers.

Respectfully submitted,

Albert M. Herr, *Secretary.*

Report of the Treasurer

Expenditures	
Vouchers on Treas. Paid	$752.64
Balance, Cash on Hand	413.13
	$1165.77

Receipts		
Balance, Feb. 20, 1904		$253.36
Cash from Membership	$556.00	
" " Interest	78.16	
" " Registering	14.00	
" " Advertising	186.25	
" " Late Entries	2.00	
Cash from Certificates of Merit	$50.00	
" " Special Premiums	26.00	$912.41
		$1165.77

Permanent Fund		
Balance, Feb. 20, 1904		$1910.21
Cash, Chicago Carnation Co.	$50.00	
" C. W. Ward	36.00	86.00
		$1996.21

F. E. Dorner, *Treas.*

Report of the Nomenclature Committee

There were registered during the year the following carnations: Mrs. W. L. Lewis, by W. L. Lewis, Marlboro, Mass.; Flambeau and Beatrice, by Baur & Smith, Indianapolis, Ind.; Variegated Lawson, by W. B. Arnold, Rockland, Mass.; Harvard Crimson, by F. A. Blake, Rochdale, Mass.; My Maryland, by H. Weber & Son, Oakland, Md.; White Enchantress, by L. E. Marquisee, Syracuse, N. Y.; Melody, by F. R. Thornton, Streator, Ill.; Victory, by Guttman & Weber, New York, N. Y.; Coral, Allspice, and Candace, by Indianapolis Flower & Plant Co., Indianapolis, Ind.; Maid of Honor, by W. A. Harkett, Dubuque, Ia.; Senator Crane, by Robert C. Pye, Nyack, N. Y.; Uncle Peter, by D. C. Noble, Columbia City, and.

There has been some complaint about the name Senator Crane from the members of this committee, lest it be confounded with the variety G. H. Crane. The secretary took this matter up with Mr. Pye and he replied that it was named because the flower was associated with the Crane family and that by the time it was likely to be introduced, the older variety Crane would no longer be grown, so he refused to change the name.

The variety Uncle Peter is similar in description to Melody and we hope at this show to have the two varieties together for comparison, the variety Melody having priority of registration.

(Signed) The Nomenclature Committee.

Papers Read before the American Carnation Society

CARNATION DISEASES

By Prof. Hasselbring, of the University of Chicago

With the extended cultivation and amelioration of the carnation, new diseases and disorders have made their appearance. Are these troubles the result of cultivation? Has the continued high culture predisposed the plants to certain forms of disease? What are the diseases that threaten the carnation to-day and how can they be prevented?

These are questions of ever-increasing importance to the florist. Their importance will increase with every extension of the cultivation of the carnation. In no other branch of horticulture is the investment and risk so great as in floriculture; no other branch of agriculture and all the related pursuits expend so large a proportion of the returns for labor. A failure means a corresponding loss. Every factor that is likely to cause failure should be thoroughly understood.

The whole question has received far from sufficient attention. Our experiment stations, while they have vastly furthered the interests of other branches of agriculture and horticulture, have left the whole field of florists' problems almost untouched. In this state (Illinois), containing the largest greenhouse industry in the world, our Experiment Station cannot legally take up any question relating to the culture of plants under glass. The florist must stand on his own feet.

In the absence of sufficient experimental investigation it will be possible to touch only the main features of the question of diseases, and point out the possible future of the carnation in relation to them.

In the main, the troubles with which the florist has to deal may be classed under three categories, insect enemies, physiological disorders, and fungous diseases. Fortunately, the carnation has but few insect enemies, and those are so well understood that I will not take up the time to speak of them. The others are not so well understood.

Physiological diseases result from the disturbances of the functions of a plant from any cause whatever. Less than three-quarters of a century ago it was the common view that all cultivated plants must be regarded as diseased because they were not growing under natural conditions. Therefore, their functions must be disturbed. We no longer follow this mode of thinking. There is no reason to believe that plants are weakened or impaired in vitality by continued cultivation. It is true that we cannot define what we mean by "vitality" in a plant, but if its vitality was impaired by continuous cultivation, we should finally expect it to die. This has not been our experience. Wheat has been in cultivation for thousands of years and the plants are more vigorous and give greater yields to-day than one thousand years ago. You will perhaps mention the "running out" of varieties. I do not think varieties have run out. They have been superceded by better ones and by comparison the older variety has appeared to "run out." We have no record but our judgment to show that any variety has "run out." It is true, certainly, that all plants vary under cultivation and the same seed pod may give some offsprings of a weak and some of a vigorous habit, but this is incident to cultivation and not caused thereby. The cause lies in the unknown factors governing the variation of plants.

As physiological troubles we may mention the "sleeping" of flowers, and bursting of the calyx. The cause of those troubles rests to a great extent in the nature of the variety, but to some extent also in outer conditions. The very fact that the calyx of certain varieties bursts with some growers, but not with others, shows that this trouble is greatly influenced by outer conditions and can be solved by experimentation. As yet, as I have said, these subjects have never been scientifically investigated. It is to be hoped that some time these questions will receive their proper share of attention by our Experiment Stations.

In considering fungous diseases we must keep in mind distinctly one thing: These diseases are caused by distinct parasitic organisms. A fungus is an individual organism just as much as the carnation plant is. It has a vegetative period and finally produces spores which again reproduce the same fungus. Its whole development can be followed with the same certainty with which the development of any plant can be followed from seed to maturity. Parasitic fungi live in the tissues of other plants, spreading in the same manner as roots in the soil. In this way fungi produce diseases by destroying the tissues of the plants upon which they feed.

Diseases of this nature are often attributed to some sort of unfavorable conditions, such as lack of ventilation, too much water, deep planting, and the like. This is an error. While certain conditions favor the growth of fungi and thus cause disease to appear more abundantly, it is nevertheless true that such diseases would not appear if the fungi were absent. The fungi are in every instance the prime cause of disease — not the conditions.

There are at the present time but two fungous diseases of the carnation which we need to discuss — the rust and the stem-rot.

The rust was a prevalent disease about ten years ago. At that time it was feared as the worst enemy of the carnation, as its frequent discussion in the horticultural literature of that time indicates. It still appears spasmodically here and there on some varieties, but it is no longer the dreaded enemy of the carnation. We will come back to the causes of this again.

The stem rot is a far more serious disease and one which will be difficult to control. It is caused by a fungus of the genus Fusarium. While the name of the fungus may not carry with it any special significance, we shall see presently that this is one of a great group of fungi which have received considerable attention of late, and that the study of this group has been the chief means of developing a new method for controlling diseases. These fungi are the causes of the now well-known "wilt diseases" of many plants. The wilt diseases of the cotton, cowpea, watermelon, flax, and aster, are caused by species of Fusarium. These diseases have been carefully investigated and from the knowledge gained from them we can fill out, tentatively at least, such points as are still unknown in the life of the carnation fusarium.

The stem rot, which is not primarily a rotting of the stem, but a wilt disease first manifests itself by a wilting of the leaves of some shoots. Very often only the leaves on one side of a shoot wilt, and in nearly all cases only a part of the plant is affected. This is more especially true during the early stages of the disease. It will frequently be found that the branches on one side of the plant are affected and sometimes only those arising low down on the main stem. The disease always progresses upward. The leaves on the affected branches soon die and turn to a pale color without dropping. The upper leaves on these branches may be wilted, but still grow until the whole branch finally dies. The calyx lobes or flower stems usually turn yellow at the tips before the upper leaves begin to die.

The root systems of these plants appear healthy externally *with the exception of one or two roots*. These are completely decayed, so that only a remnant of them is left. Yet if the diseased plants are carefully examined after the roots have been washed, these decayed roots can always be found. Here is evidence that the fungus has entered the plant from the soil through the roots.

The cause of the fungus in the plant and the reason for the peculiar damage it causes can be easily seen by cutting microscopical sections at different parts in the diseased stem and branches. The fungus grows from the infected roots into the water conducting channels of the stem and branches. When the disease is severe, these can be seen to be literally plugged up with a mass of the mycelium of the fungus. It is then impossible for the plant to obtain sufficient water, and wilting and death are the results. Sometimes the fungus invades only the ducts on one side of the stem and then the leaves and branches on this side wilt. Later when the plant is dying, the other tissues are also invaded, first the pith and then the cortex. The fungus produces innumerable spores on the dead stems and on the lower portions of the leaves.

So much for the effect of the fungus on the carnation plant. Questions of more practical importance are: How does this disease get into the carnation beds, and how can it be prevented?

The fusariums are a group of soil fungi. They are found nearly everywhere on decaying organic mater in the soil. I have been unable to collect evidence showing that the stem rot reappears in the same soil year after year, this being due to the fact that carnation growers change their soil annually. We know, however, that the plants are attacked from the soil and this in connection with the fact that the fusariums are found almost everywhere and can grow freely on dead matter in the soil, leaves scarcely any room for doubt that the soil is the source of infection. It has been definitely shown that the wilt fungus of the cotton, watermelon, cowpea, and flax remain indefinitely in soils once infected. In fact, it has been found impossible to eradicate them. The same is probably true for the carnation wilt or stem-rot.

The most important question is, how to prevent the disease? Since it remains in the soil it is beyond the reach of the usual fungicides. It attacks the plants beneath the soil so that direct preventive measures are practically excluded. What hope have we, then, of ever controlling the disease? I think the solution of the question will come from a study of varieties. If we look over the different varieties now generally cultivated, we find that some are badly affected, others less, and some seem not to suffer from the disease at all. It is somewhat difficult to collect exact data on this, but it seems to be everywhere conceded that such varieties as Crane, Morning Glory, and Flora Hill are most subject to the disease; many growers have thrown these varieties out entirely. Flamingo and Apollo and White Cloud seem to suffer as much as those just mentioned. On the other hand, many varieties seem to be free from the disease. These are especially the strong growing varieties, such as Harlowarden, Enchantress, those of the Lawson type and Lady Bountiful. I have seen America planted where Crane died of stem rot, yet the former variety was not affected. Some varieties seem to outgrow the disease even when affected. This seems to be true of Bradt and Lord. These observations are as yet of limited extent, but they point to one conclusion. Some varieties of carnations are immune from stem-rot. The problem for the future will be the production and selection of immune varieties. It should be the aim of the originator to produce resistant varieties, and only such varieties should be put upon the market. This plan is not impossible, for it has been successfully followed in the case of cotton. Through the work of the Department of Agriculture several varieties of cotton have been produced which are resistant to the wilt. Those can be planted in infected fields, where other varieties have been exterminated, without being attacked by the disease. I am convinced that we have a similar example in the carnation rust. Almost imperceptibly the discussion of this disease has dropped from horticultural literature. Why? If we examine the older catalogues we find many varieties advertised as "rust proof." Those may or may not have proved as represented, but the fact shows the tendency of the time to produce rust-proof carnations. Only the varieties that actually proved rust proof finally were extensively cultivated, and to-day the rust has practically disappeared from our greenhouses I have no doubt that we will have a similar experience with the carnation stem rot. We have already indications of the lines to follow, and experience has shown that they can be followed successfully.

EXHIBITION CARNATIONS

By Fred. Lemon, of Richmond, Ind.

In approaching the subject of "Exhibition Carnations," the first inclination is to seek a definition for the term. What are exhibition carnations, and who are the growers of exhibition carnations?

When we speak of exhibition chrysanthemums there immediately arises up before us a vision of immense reflexing or incurving Japanese blooms of various shades of color, some light, some dark, some gaudy, some dull, all beautiful, but scarcely any practicable for the purely commercial grower. We find these in the hands of a special class of growers: First, the large growers, importers and introducers of new chrysanthemums, whose aim in exhibiting the marvelous creations of the hybridizer is to arouse the interest of prospective buyers. Second, the private gardener, that true horticultural enthusiast, whose time and skill is devoted to perfecting the magnificent blooms, mainly to satisfy a love of the beautiful in nature. When we turn to the carnation, however, and examine the exhibition and the exhibitor, we find a magnificently large collection of the very same varieties which are daily seen by thousands in the wholesale houses of the country, — flowers a little better than the best in the market, perhaps, (because more carefully handled), and exhibited by the very men whose vast ranges supply the markets. Thus is the carnation distinctively the business man's flower and an exhibition of carnations a most practical demonstration of what can be accomplished by care and attention in growing flowers for the market.

A consideration, therefore, of the subject now before us, must of necessity encroach to a certain extent upon the daily task of cutting, packing, and shipping carnations, because the very methods which result in putting flowers into the market in the best possible condition, must form a foundation for our plans and methods of putting our blooms into the Exhibition Hall in perfect condition.

Granted, then, that we have flowers which we think are good enough to exhibit (and we might say right here that they must be *rather* good in this day and age), the first question is the selection of blooms, and time and method of cutting. Just here a study of the scale of points for judging will be of great benefit. This shows us that color must be the first consideration, with stem and size counted equally for second place. Great care should be used to obtain a very evenly-colored lot of blooms even at the expense of other points. With this end in view, it is best when possible, to cut all the flowers for one class about the same time, for there will surely be variations in color if some of the blooms have been kept in water sixty hours, and some only six hours.

Use a sharp knife to cut the blooms, and take every inch of stem you can get without going into the hard wood. The proper condition of a bloom to be cut for exhibition, depends largely upon the variety, but may be generally stated as — *just before that bloom reaches a state of perfection.* Here is where the judgment of the operator is put to the test, here the point where many prizes are lost. Such a variety as Enchantress, for instance, is in perfection when the flower is young, and failure greets the man who allows his Enchantress to develop too fully before cutting, while

that erstwhile grand variety, Flora Hill, only reached a state of perfection for exhibition after having stood upon the plants for many days and being allowed to develop very fully before cutting.

Between these two extremes are many gradations, and as before stated, must call upon the best judgment and broadest experience at command.

In cutting for exhibition, cut each class complete and keep that class to itself from this time until it is staged, only changing blooms to strengthen the class you are most desirous of winning.

Blooms should not lie out of water long after cutting, and it is a good plan to make a fresh cut on the stems after you reach the storing-room and before putting them into water.

Much has been written on the subject of a storing-room for blooms, but I believe that any room or cellar which meets the following requirements will be satisfactory: The air must be kept pure and sweet, and moderately dry, though a little continuously evaporating moisture is not injurious. It must not be totally dark. The temperature must be kept a few degrees lower than the night temperature of your greenhouse. In such a place the flowers should stand at least 6 hours, and may stand several days, before packing. When kept more than 24 hours, the water should be freshened, and the stems re-cut every morning.

In handling blooms at all stages, — especially with varieties of intense color, such as Adonis, — great care should be exercised to avoid bruising. This is a matter of great importance, as varieties of high color are especially easily bruised immediately after cutting, and if blooms are laid down on a rough board or cement bench, or carelessly knocked together while carrying from the house to the cooling-room, they will surely show the effect later, and on the observance of these minor points often hangs success.

All flowers which have an inclination to droop or hang their heads in the slightest degree, should be supported in a rigidly upright position. There are several methods of accomplishing this end. A wire ring like an ordinary carnation support may be attached to the jar in such a manner that it will act as a support for the blooms, and some people go to the trouble of tieing a wire to each stem.

Whatever method is used, they must be supported from the very time they are cut, for the first two or three hours in water is the time when most of the stiffening and hardening takes place, and if the stems harden in a bent or curved position, subsequent supporting will be useless.

Like all other essential steps in the task of placing blooms in the Exhibition Hall, packing the blooms for shipment is an operation of the utmost importance. The aim being to get the blooms through in the most perfect condition, any extra attention which can be given to this work is certainly time well spent. The most important point is to prevent the blooms from becoming crushed or mashed out of shape. This should be very carefully avoided, for if the broad bottom or ray petals become bent or pressed down, it is almost certain that they will not regain their proper form when set up for exhibition.

One of the simplest methods of accomplishing this end and one that is fairly efficacious, is to place the blooms upon pillows, or small rolls of paper as long as the width of the box, and about 1½ inches thick.

A more thorough method is to cut circular pasteboard discs, the size of the blooms, with a hole in the center, large enough to slip over the stem and calyx, so that the disc will press against the back of the flower, holding the ray petals in a perfectly horizontal position. These must be used in connection with the pillows, and they keep the blooms in perfect shape ; indeed, in many cases improving the form of irregular blooms.

As to packing the blooms, there are as many different methods as there are exhibitors. If the shipment is a long one, we have found it a good plan to lay the ends of the stems upon wet tissue paper, and place a layer of wet tissue over every layer of stems, so that the ends of the stems, freshly re-cut, are all surrounded by moisture. The flowers should be packed with their heads all one way, and a cleat pressed firmly down near the lower end of the stems every fifth or sixth row.

For our mid-winter shows, very thick lining of boxes is necessary, so some expedient must be adopted to prevent the heavy layers of paper, which are turned over the top, from resting on the blooms, as this will certainly press them out of shape.

If there are several boxes, it is a good plan to mark the contents by classes on the outside of each.

If the discussion of this paper brings out a recipe for the safe and expeditious handling of the boxes by the express companies the writer will be devoutly thankful. The only rule we know is, "Give your boxes to the Company and join the 'Don't worry Club.'"

If your exhibit is small, however, an excellent method is to buy a cheap trunk, make three trays to fit in it, pack your flowers very firmly, fill your upper vest pocket with cigars with bands around them, your lower pockets with quarters, and take it through as baggage. If you use this method, you must not expect to "experunce the comforts of thravel" (to quote Mr. Dooley), because it is necessary to follow the example of the elephant and stay close to your trunk.

Now, do not think because your blooms are fine, have been well packed, and have arrived in time, that the prize is won. It is impossible to overestimate the value of staging the blooms properly. It is safe to assert that where there are a number of entries of almost equal merit, the blooms which are most perfectly staged have five points advantage. This is mainly the result of "first impression on the judges."

Judges are human, and the most impartial man in the world cannot possibly avoid being influenced, to a certain extent, by his first impression, formed unconsciously the very instant his eyes take in the various entries.

The standard for an artistic parlor arrangement will not fit the exhibition. The aim here is to show every bloom in such a manner that it will emphasize the salient points of the scale for judging.

The blooms should be arranged evenly, if possible, not allowing any bloom to touch its neighbor. Every inch of stem possible should show above the vase and the stems should be held very tightly at the bottom, in order to spread the blooms properly.

It is frequently a good plan to use a smaller vase than the one supplied for the class, to accomplish this end.

When you begin unpacking, make a fresh cut on the ends of the stems as they are taken from the box, give the bloom a gentle downward rub with the hand to overcome any slight sleepy appearance, and lay them down on the table spread out so that each bloom may be examined. When one class is unpacked, carefully select and count out the exact number of blooms required for the class; keep the scale of points in mind, — evenness of color first, stem second, and size a close third. In arranging the blooms, select the longest stems first, take them up, one at a time, and hold them by the extreme end of the stem, with the flower hanging down. Use the longest, strongest, and straightest stems for a central bunch, placing the blooms exactly even. Work the blooms around this central bunch in circles (if that expression may be used), turning the bunch in the hand, and adding blooms equally on all sides. Place the outer rows of blooms so that they will stand a little lower than the central bunch. When complete place the whole bunch in a vase that will hold the stems as tightly as they have been held by the hand, and do not shove them too far down.

After the blooms are arranged, a study of color effect in placing the vase is important. A light scarlet carnation may be fine, and deserve to win, but if placed next to a variety the color of Adonis, it will lose much of its effectiveness.

Fundamentally, of course, intrinsic

merit in the flowers themselves should win, but deep down in the heart of the florist who becomes the judge, is the artistic instinct which will not be denied, and in this day of close competition, a recognition of this fact, if combined with high grade stock, will aid materially in reaching the goal, — first place against strong competition.

In summing up the points to be considered, one rule may be deduced, "If you want to win, nothing is too much trouble."

CUTTING, PACKING AND SHIPPING CARNATIONS

By C. L. Washburn, of Chicago

The development of the shipping business has been the cause of the remarkable increase in the growing of carnations in this market. Ten years ago a very few of the blooms then being grown would do to ship, while the quantity grown was not over ten or twenty per cent of the present output. The demand from outside points was very heavy and the problem to solve was how to ship the carnations so they would arrive in good condition. This brought a close study of the methods of handling the flowers and also the constant trial of new varieties. As soon as the growers began to improve their stock and their system of handling the flowers, there was an immense increase in the demand for the goods. This vast increase has taken place mostly in the last six or seven years, and every year has shown a larger amount of carnations planted and handled than the previous year. It is now almost impossible to get the exact amount of carnation blooms received each season, but a conservative opinion would place the number at about fifty thousand blooms per day during October and November, and then a gradual increase to one hundred thousand per day by midwinter, and continued at this rate to the end of the season. At least seventy-five or eighty per cent of this amount is shipped away from the city, and in the ability to deliver these flowers at their destination in first-class condition lies the successful conduct of the business.

The manner of handling these blooms as adopted by most of the larger growers is as follows:

The cutting of the flowers must be attended to with considerable judgment as regards the weather. If the weather is very cold the flower should be allowed to open a little more than usual, as if cut too close in very cold weather they soon go to sleep. Again, if there is a warm wave with lots of moisture in the atmosphere, the flowers will be soft, and must be cut pretty close; also, during these warm spells the flowers should be kept in a little cooler temperature than usual to make the blooms as firm as possible. After the flowers are cut and tied in bunches of twenty-five each, they should be placed in water as soon as possible. This is best accomplished by having pails of fresh water standing handy to the benches, so that as soon as a bunch is tied up it can be placed in the water at once, This is very necessary, as it helps prolong the life of the flower. If the blooms are left out of water until the cutting is all finished, a number of them will have wilted a little and the sap in the stem harden up to such an extent that the flower will not suck up water freely.

After the cutting and bunching is finished, the flowers should be placed in water in a closet or room where the temperature remains steady at about fifty-five degrees, and where no drafts of air will strike them. When packing to send them to the commission man or wholesale store, use a few sheets of newspaper between each layer of bunches, and keep the ends of the stems from touching any of the flowers. Two layers of bunches are enough to put in any package, as too many heads get broken when packed in too solid. The wholesale or commission house should put the flowers in water as soon as received.

Now for short distances, where the flowers can be shipped on trains that will arrive early enough for the flowers to be delivered that same day, the stock sent is usually that cut the night before; but for flowers that will have to remain packed in the boxes over night, and for all long-distance shipments, the stock taken is always cut in the morning, and after standing in water from three to six hours, is sent in to the market and shipped away the same day. The old idea that a carnation keeps best if allowed to stand in water twelve to twenty-four hours before sending into market has been disproved by actual experience, and of the carnation blooms received by the wholesale growers, at least two-thirds the stock is cut in the morning and shipped in to their wholesale stores in the early afternoon to send away the same day. These flowers will arrive in better shape and last longer every time than if cut the day before.

After carnations have been kept eighteen or twenty hours in water, they seem to get kind of soggy and do not ship well.

The boxes used for shipping carnations are made of thin wood, half-inch ends and quarter-inch tops, bottoms and sides, with two half-inch cleats to fasten the stems down and hold the ice securely. These boxes are usually twelve inches wide and four to eight inches deep, and thirty-six to forty-six inches long. The boxes may appear too long at first, but they are better too long than too short. Line the boxes first with four to eight thicknesses of newspapers, depending on the weather. Then a single thickness of soft wax paper all around. Commence and put in a row of carnations, usually about six flowers to a row, and between each row of heads place a strip of wax paper about three inches wide and as long as the box is wide; about four rows of flowers in each end will constitute a layer, and between each layer place a sheet of wax paper the width of the box and long enough to cover all the heads in that layer; keep on until the box is completed.

It will be found that with the extra long stems now being grown, that four or five rows in each end of the box will be all that can be put in a layer, as by that time the stems will be within six inches of the opposite row of flower heads. The number of layers of flowers should not go over four or six, which will allow of from two hundred to three hundred carnations in one box. In the center of the box where the stems meet there should be placed at least eight or ten thicknesses of well saturated newspaper. These newspapers should be kept in a pail of water so that they will have absorbed all the water they possibly can before being placed on the stems. After putting this wet paper on the stems, place the two cleats on and fasten them down securely with nails. Be careful in placing the cleats to put them only on the double rows of stems and not beyond, and also see there is plenty of wet newspapers under them, so there will be no danger of breaking the stems by pushing the cleats too far down.

The subject of icing a box is a debatable point, but for long distance shipments our experience is that a small piece of ice well wrapped with newspapers helps to preserve the flowers from heat; and also keep the newspapers over the stems moist. For varieties that have brittle stems, like Lawson, care must be taken not to fasten the cleats down too tight, or too near the neck of the flower, or the stems will be broken in handling the package. It is also well to put a few sheets of tissue paper well crumpled up between the cleats and the flower heads. This will absorb any damp, cold air from the ice, and will also serve as a cushion to protect the flowers from shaking up and down in the box by rough handling.

In order to dispose of our product to advantage, it is absolutely necessary to continue to improve our methods of handling carnations intended for shipment. They must be grown stronger,

more air given, and great care taken in feeding. The effect of the warm, spring rains must be overcome in some way, as during such periods it is almost impossible to ship carnations any distance and not have them arrive fast asleep.

All the little details of cutting, placing in water and shipping, should be attended to with the greatest fidelity, and as we improve our methods of handling and our varieties of stock, so shall we increase our volume of business. The advisability of devoting a certain amount of glass to growing plants for spring and early summer blooming is a point that should be considered. There are some varieties that are at their best during these periods, and there is no doubt that carnations always ship best when in full crop. If the creators of new varieties would give more attention to the keeping and shipping qualities of their new flowers instead of trying to increase the size so much, they would be working along lines that are susceptible of considerable improvement. No matter how large a flower, or how fragrant or brilliantly colored it is, if it will not keep well and ship well it cannot be grown extensively. The immense number of railroads centering here and reaching out in every direction, with frequent trains and quick express service, gives us a field to be supplied that reaches as far east as New York State, Pennsylvania, and south to Florida, New Orleans, Galveston, and various Texas points, while west we can reach all Colorado towns and some points in Montana, and then on north to Winnepeg. This vast scope of country makes Chicago the central flower market of the United States, and has built up the immense greenhouse business of this vicinity.

Report of the Judges

CLASS A.

1. Best vase 100 blooms White. 1st, E. G. Hill Co., Lady Bountiful; 2d, W. J. & M. S. Vesey, Lady Bountiful.

2. Best vase 100 blooms Daybreak shade of Pink. 1st, Chicago Car. Co.; 2d, E. G. Hill Co. Both Enchantress.

3. Best vase 100 blooms Lawson shade of Pink. 1st, Chicago Carnation Co.; 2d, Emil Buettner. Both Lawson.

4. Best vase 100 blooms Scott shade of Pink. 1st, Chicago Car. Co., Fiancee.

5. Best vase 100 blooms Scarlet. 1st, Chicago Carnation Co., Cardinal; 2d, J. D. Thompson Co., Robert Craig.

6. Best vase 100 blooms Crimson. Chicago Carnation Co., Harlowarden; 2d, C. W. Ward Co., The President.

7. Best vase 100 blooms Yellow Variegated. 1st, Chicago Carnation Co., Dorothy Whitney.

8. Best vase 100 blooms White Variegated. 1st, J. D. Thompson Carnation Co., M. A. Patten; 2d, W. J. & M. S. Vesey, Glendale.

9. Best vases 100 blooms. Any other color. 1st, Poehlman Bros., Prosperity.

CLASS B.

1. Best vase 50 blooms White. 1st, Emil Buettner, Gov. Walcott; 2d, E. G. Hill Co., Lady Bountiful.

2. Best vase 50 blooms Daybreak shade of Pink. E. G. Hill Co.; 2d, Chicago Carnation Co. Both Enchantress.

3. Best vase 50 blooms Lawson shade of Pink. 1st, Emil Buettner, Lawson; 2d, Poehlman Bros., Lawson.

4. Best vase 50 blooms Scott shade of Pink. 1st, J. D. Thompson Carnation Co., Mrs. E. A. Nelson; 2d, H. Weber & Sons, Genevieve Lord.

5. Best vase 50 blooms Scarlet. 1st, J. D. Thompson Carnation Co., Estelle.

6. Best vase 50 blooms Crimson. 1st, C. W. Ward, The President; 2d, C. W. Ward, Octoroon.

7. Best vase 50 blooms Yellow Variegated. 1st, Chicago Carnation Co., Dorothy Whitney; 2d, F. Dorner & Sons, Dorothy Whitney.

8. Best vase 50 blooms White Variegated. 1st, Chicago Carnation Co., M. A. Patten; 2d, E. G. Hill Co., M. A. Patten.

9. Best vase 50 blooms. Any other color. 1st, Chicago Carnation Co., Prosperity; 2d, W. J. & M. S. Vesey.

CLASS C.

1. Best vase 25 blooms White. 1st, Emil Buettner, Gov. Wolcott; 2d, J. D. Thompson Carnation Co., Gov. Wolcott.

2. Best vase 25 blooms Daybreak shade of Pink. 1st, Emil Buettner, Morning Glory; 2d, Chicago Carnation Co., Fair Maid.

3. Best vase 25 blooms Lawson shade of Pink. 1st, Emil Buettner; 2d, Chicago Car. Co. Both Lawson.

4. Best vase 25 blooms Scott shade of Pink. 1st, J. D. Thompson Carnation Co., Mrs. E. A. Nelson; 2d, H. Weber & Sons, Genevieve Lord.

5. Best vase 25 blooms Scarlet. 1st, H. Weber & Sons, Estelle; 2d, J. D. Thompson Carnation Co., Estelle.

6. Best vase 25 blooms Yellow Variegated. 1st, Chicago Carnation Co., Dorothy Whitney.

7. Best vase 25 blooms. Any other color. 1st, Guttman & Weber, 2d, W. J. & M. S. Vesey. Both Prosperity.

MEDALS AND SPECIAL PRIZES

William Scott Prize, 50 blooms Scarlet. — 1st, E. G. Hill Co., Cardinal; 2d, Guttman & Weber, Victory.

E. G. Gillett Prize, best vase of 50 blooms in the hall. — E. G. Hill Co., Cardinal.

H. Weber Sons' Prize, vase of Gov. Lowndes and vase of Genevieve Lord scoring the highest number of points. — E. G. Hill Co., Gov. Lowndes; Guttman & Weber, Genevieve Lord.

James Hartshorne Prize, best vase of 50 blooms, Crusader. — J. Breitmeyer's Sons.

Gold Medal for best vase of 100 blooms, any variety, any color. — Chicago Carnation Co., Fiancee.

Silver Medal, for second best vase of 100 blooms, any variety, any color. — C. W. Ward, Robert Craig.

Bronze Medal, third vase of 100 blooms, any variety, any color. H. Weber & Sons, My Maryland.

Silver Medal for best vase of 50 blooms of carnations not yet disseminated. J. D. Thompson Carnation Co., Robert Craig.

Bronze Medal for second best H. Weber & Sons, My Maryland.

$15 in cash to best vase in Class A. — Chicago Carnation Co., Fiancee.

$10 in cash to best vase in Class B. — E. G. Hill Co., Enchantress.

Vaughan Cup for best 50 blooms of an undisseminated variegated carnation, any color. — H. W. Buckbee, No. 38.

A. Dietsch & Co. Prize for best undisseminated seedling carnation from the State of Illinois. — J. D. Thompson Carnation Co., Robert Craig.

Baur & Smith Prize, for best 50 blooms of Carnation Indianapolis. — Emil Buettner.

Moninger Prizes, 50 Crimson. — 1st and 2d prizes divided between Poehlman Bros. and Chicago Carnation Co.

50 yellow. — Chicago Carnation Co., Dorothy Whitney.

Foley Mfg. Co. Cup, for best vase of 100 blooms arranged for effect. — Cup not awarded. Joseph M. Smely was given one-half cash value of the cup.

Certificates were awarded to W. N. Rudd, Lady Margaret, 85 points; M. A. Patten, Mikado, 88 points; C. W. Ward, Lieut. Peary, 88 points; H. Weber & Sons, My Maryland, 88 points; C. W. Ward, Robert Craig, 88 points.

Preliminary Certificates were awarded to C. W. Ward seedlings No. 569, which scored 93 points; No. 234, 86 points; No. 211, 91 points; Almo Ward, 88 points; No. 2528, 85 points; No. 2653, 86 points. E. G. Hill, seedling No. 12, 85 points. S. J. Goddard, seedling Helen Goddard, 85 points.

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$40 per 500
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Red Lawson will Bloom
3 to 1 against any other RED Carnation on the market

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8000 BLOOMS
Cut and Sold Xmas Week at $1.50 per doz.

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Cut and Sold Xmas Week at $1.50 per doz.

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50,000 Cuttings Sold
and not a word of complaint
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$10 per 100
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Here are THREE WORTHIES worthy of your consideration:

Fiancee
The FINEST PINK

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The FINEST SCARLET

Fred Burki
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Without exception, the best in their respective classes.

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250 at 1000 rate.]

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The best and most prolific White Carnation on the market to-day.....

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	Per 100	Per 1000
ENCHANTRESS,	$3 50	$30 00
FAIR MAID,	2 50	20 00
THE QUEEN,	3 00	25 00
QUEEN LOUISE,	2 00	15 00
LAWSON,	2 50	20 00
CRESSBROOK,	2 00	15 00
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Can give EARLIEST DELIVERY on the following GEMS OF THE SEASON:
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Free from all Adulteration
IN BAGS, $18.00 per TON
Special price on car load lots in bulk.
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Carnation Cuttings
STRONG AND WELL ROOTED

	per 100	1000
WHITE		
Queen	$2.50	$20.00
Queen Louise, Boston Market	2.00	15.00
PINK		
Nelson Fisher	6.00	
Ethel Ward	4.00	
Enchantress	3.00	25.00
Lawson, Fair Maid	2.00	15.00
CRIMSON		
Harlowarden	2.50	20.00
VARIEGATED		
Judge Hinsdale	4.00	
Prosperity	2.00	15.00
ENGLISH SELECTED MANETTI STOCK		
5 to 8 m/m	$12.00 per 1,000	

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CARNATIONS ROOTED CUTTINGS HEALTHY, YOUNG STOCK

	Per 100	Per 1000
Enchantress	$3.50	$30.00
Queen	2.50	20.00
Lawson, Queen Louise, Walcott,	2.00	15.00
Floriana	1.50	12.50
Lord	1.25	10.00
Fiancee	12.00	100.00

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The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light. Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year. Delivery strictly in rotation, beginning April first.

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Own root	$ 25 per	100	Grafted	$ 30 per	100
"	55 "	250	"	70 "	250
"	100 "	500	"	130 "	500
"	200 "	1000	"	260 "	1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

JOHN N. MAY, SUMMIT, N. J.

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Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

Catalogue describes all the above

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PALMS, FERNS
And Decorative Plants

A fine lot of Azaleas in great variety; alway on hand, in flower from now until Easter

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Also, Araucarias, Rubbers, Pandanus, Aralias Dracaenas, Aspidistras, Marantas, Crotons etc., etc. : : : : : : : : : : : :

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TO SAVE YOU MONEY

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Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Grafted Rose Plants

2½-INCH POTS

Grafted from all flowering wood; no blind wood used. These are all grafted on selected English Manetti stocks.

BRIDE	per 100, $10.00
BRIDESMAID	" 10.00
CHATENAY	" 10.00
LIBERTY	" 12.00
LA DETROIT	" 12.00
MacARTHUR	" 12.00

Rooted Cuttings

Guaranteed all from flowering wood. No blind wood used.

ROSES

	Per 100	Per 1000
BRIDE	$1.50	$12.50
BRIDESMAID	1.50	12.50
CHATENAY	1.50	12.50
PERLE	2.50	20.00

CARNATIONS

GOV. WOLCOTT	$2.00	$15.00
WHITE CLOUD	2.00	15.00
NORWAY	2.00	15.00
MRS. LAWSON	2.00	15.00
MORNING GLORY	2.00	15.00
MRS. JOOST	2.00	15.00
CRANE	2.00	15.00
AMERICA	2.00	15.00
PROSPERITY	2.00	15.00
GAIETY	2.00	15.00

Also the sensational new variety, ***FIANCEE.*** Our order was put in two years ago, and was the first order given for ***FIANCEE.*** We can promise very early delivery at same prices as the introducer. ***FIANCEE, per 100, $12.00; per 1000, $100.00.***

Bassett & Washburn,

Greenhouses, Hinsdale, Ill.

Office and Store, 76 Wabash Ave. *CHICAGO.*

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IN LARGE QUANTITIES WRITE FOR PRICES

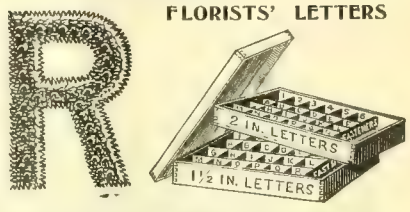
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What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get your results beyond expectation.

BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
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Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
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Headquarters in Western New York

For ROSES, CARNATIONS

And all kinds of Seasonable Flowers.

WM. F. KASTING

Wholesale Commission Florist

Also Dealer in Florists' Supplies and Wire Designs.

383-87 Ellicott St. BUFFALO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

Rooted Carnation Cuttings, Cheap

NEW CLEAN STOCK

Enchantress, M. A. Patten, Nelson Fisher, Flamingo, Boston Market, White Cloud and Madam F. Joost

Can furnish Unrooted Cuttings of last two varieties.

Prices on Application

C. G. VELIE & SON

Valley View Greenhouse. Marlborough, N. Y.

...Rooted Cuttings...

All healthy and handsome. 60,000 in sand. Several thousand in pots and trays. First Orders filled from pots and trays. Flora Hill, Q. Louise, Joost, Scott, McGowan, **$1.25 per 100; $10.00 per 1000.** Carefully packed. Cash with order.

J. H. A. HUTCHISON, Oxford,
Chester Co., Pa.

In writing to advertisers, mention HORTICULTURE

ROOTED CARNATIONS

FROM FLOWERING STEMS ONLY

	Per 100	Per 1000
Mrs. M. A. Patten	$6.00	$50.00
Enchantress	3.50	27.50
Boston Market, J. H. Manley	3.00	25.00
Fair Maid, Harry Fenn	2.50	20.00
Mrs. T. W. Lawson	2.50	20.00
Gov. Wolcott	2.50	20.00
Flamingo	500	40.00

HENRY A. STEVENS CO., Dedham, Mass.

PRIZE WINNERS

SIXTY PRIZES Won this season is proof enough of the superiority of our plants and varieties.

If you have strong, healthy plants and the Best Varieties you can win also.

NOTE! Here is our record made at the Chicago Convention last week.

	Rooted Cuttings, per 100	Per 1000
1st Prize, Best 100 Flesh Pink, with Enchantress	$4.00	$30.00
1st Prize, Best 100 Dark Pink with Lawson	2.00	15.00
1st Prize, 100 Scott Pink with "Fiancee"	12.00	100.00
1st Prize, Best 100 Scarlet with "Cardinal"	12.00	100.00
1st Prize, Best 100 Crimson with Harlowarden	2.50	20.00
1st Prize, Best 100 Yellow with Dorothy Whitney	4.00	30.00
1st Prize, in Sweepstakes with "Fiancee"		
1st Prize, 50 any other color with Prosperity	2.50	20.00
1st Prize, 50 White Variegated, with Mrs. M. A. Patten	5.00	40.00
1st Prize, 25 Yellow		
1st Prize, 50 Yellow		
1st, J. C. Moniger Prize with 50 Whitney		
1st Prize, 50 Crimson with Harlowarden Moniger Prize		
2d Prize, 25 Fair Maid; 2d, 25 Lawson; 2d, 50 Enchantress		

"FIANCEE" won the LAWSON GOLD MEDAL

The only Carnation and we the only firm to win it twice.

We sell rooted cuttings 250 at 1000 rate. We have the largest and best stock of WHITE LAWSON. Rooted cuttings of this grand variety ready for immediate delivery $7.00 per 100; $60.00 per 1000. From 2-inch pots, $8.00 per 100; $75.00 per 1000.

CHICAGO CARNATION COMPANY, JOLIET, ILL.

Hot-House Grape Vines

ALICANTE, berries large, round, large bunch. Late keeping.

APPLEY TOWERS, fine black sort, following Black Hamburg. Excellent flavor.

BLACK HAMBURG, the most popular grape in cultivation. Berries large, roundish-oval, juicy and rich.

GROS COLMAN, monstrous, round berries, juicy and sweet. Not good until fully ripe in late autumn.

GROS GUILLAUME, Barbarossa. Berries large and round, juicy and sweet but rather flat flavor. Very late.

MADRESFIELD COURT, berries very large; of true muscat flavor. Rich and excellent.

LADY DOWNE'S SEEDLING, large oval berries of rich aromatic flavor. Dark purple. One of the best late sorts.

MRS. PEARSON, large oval berries, transparent golden color. Luscious and juicy.

MUSCAT OF ALEXANDRIA, generally esteemed the best white grape. Berries large, amber yellow. Delicious flavor.

Strong Planting Canes; each $3.50

Lily of the Valley
Selected Berlin Pips

Per 100, $2.00; per 1000, $17.50; per case, 2000, $32.50

R. & J. FARQUHAR & CO.

6 and 7 South Market Street, BOSTON

In writing to advertisers, kindly mention HORTICULTURE

20,000 Grafted ROSES

OUT OF 2 1-2 in. POTS

	Per 100	Per 1000
Brides	$15.00	$120.00
Bridesmaids	15.00	120.00
Liberties	20.00	150.00

Ready for delivery March 20th.

Orders taken by our salesman, Bernard McGinnty, Flower Market, 1 A Park St., Boston, Mass.

Montrose Greenhouses

MONTROSE, MASS.

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Letters, Strips and Emblems
Koral Manufacturing Co.

Offic and Factory:
26 HAWLEY STREET, BOSTON, MASS.
Telephone, Main 3978-1 J. B. Olden, Mgr.

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PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

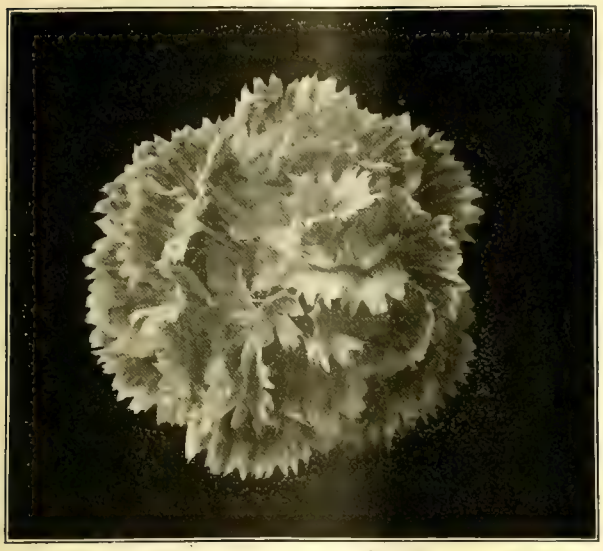
WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples



Mikado



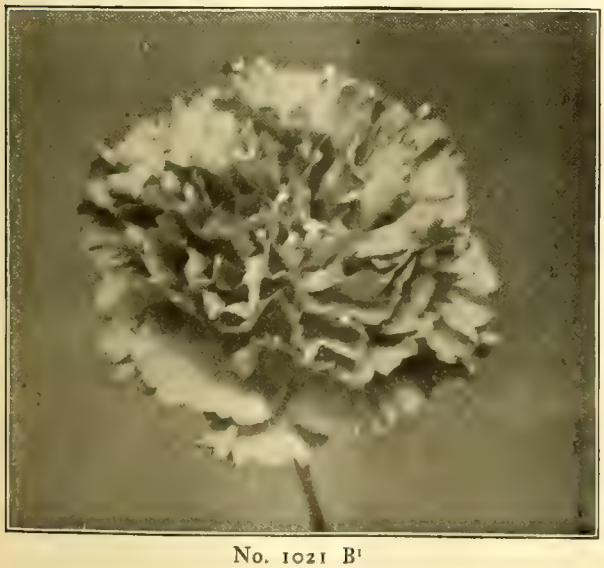
Senator Crane



Afterglow



J.. A. Valentine



No. 1021 B[1]



The Aristocrat

Patten's Mikado

(See previous page)

This sensational carnation which scored 88 points and was awarded a certificate at Chicago, is a cross between Prosperity and Gov. Roosevelt. Its general make-up resembles Prosperity, but the Roosevelt influence is seen in both habit and color-shading.

Carnation Senator Crane

(See previous page)

Senator Crane carnation was originated by Edward Dolby, gardener to Zenas Crane, Esq., Dalton, Mass. The flowers are a pleasing light pink shade, with a strong fragrance, making it with its other good qualities a variety of sterling merit. The accompanying illustrations are nearly life size, the flowers photographed measuring 3¾ inches in diameter. It is in its third year. Stock will be worked up and disseminated by Robert C. Pye, Nyack, N. Y.

A Quartette of Witterstaetter Seedlings

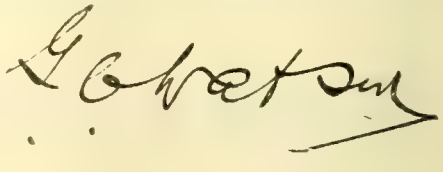
(See previous page)

Arriving with his exhibits too late for judging, the genial carnationist from Sedamsville does not figure in the prize lists of the Chicago carnation show of last week. But the country is always interested in what Mr. Witterstaetter is doing, and so we present herewith photographs of four of his most approved seedlings.

J. A. Valentine is a nice flower named after a nice man. It is of a pleasing Daybreak shade of pink, flowers 3 to 3½ inches in diameter. 1021B′ is a 3½- to 4-inch flower on the order of Fiancee. Afterglow is of a color between Fiancee and Lawson, with remarkably long and stiff stems. The Aristocrat is cerise, overlaid scarlet, and is classed by its raiser as a greatly improved Lawson in every way.

Blue-Blooded Carnations

According to the testimony of William C. Smith, who has a large range of greenhouses mostly devoted to growing carnations at 61st and Market Sts., Philadelphia, Enchantress is the best market variety at the present time; best grower, best bloomer, best seller, and brings the best price. Mr. Smith thinks Peter Fisher is the greatest man in the carnation world to-day, not only because he originated Lawson and other good ones, but also because he has never yet sent out a bad one. An enviable record truly, and we believe well merited. Fisher succeeded in developing new blood and a new standard for the divine flower, and his unbroken series of successes testify to the remarkable merit of his methods of crossing and selection. Mr. Smith places Mrs. M. A. Patten next to Enchantress as a moneymaker. Vesper is his best white. He grows Flora Hill, Bride, and other whites, but they do not come up to the Vesper standard. Lawson he places fourth on the list if it is planted early. It must be planted early to show up at its best. If planted late it does not develop stem enough until after Christmas. The Nelson Fisher beats the Lawson if planted late. Flamingo he considers the best scarlet we have; good form, good substance, and very free; good stem also, and it does not burst. Estelle is a good red, stem stiff enough but too short, and doesn't bring the price. Take it all in all, however, it is a pretty good pink. Prosperity is too shy, but thinks it is improving, as it has done better for him this year than ever before; bloomed earlier, and brought better price. Mrs. E. A. Nelson wants high feeding to do its best. Three inches of cow manure as mulch is none too much. Will stand more high feeding than any other variety; in fact, demands it before it will produce good stems. Flora Hill good only for funeral work. Not in it with Vesper and other blue-bloods.



Echoes from England

ORNAMENTAL TOBACCO PLANTS

During recent years no hardy plant has attracted so much attention as the new Nicotiana Sanderæ, a strong growing tobacco bearing a profusion of rich pink flowers. It was seen in this country by the public for the first time at the great Temple show in 1903, and every one was delighted with it. Seeds now can be obtained at 1/ per packet and it will doubtless have a tremendous sale this spring. Nicotiana Sanderæ is of hybrid origin; it is the result of crossing N. alata (affinis) with N. Forgetiana. The latter was discovered in Brazil about four years ago by M. Forget, a collector sent over by Messrs. Sander and Sons, St. Albans. There seems little doubt that this new tobacco will figure largely in English gardens, for it is said to be equally useful for outdoors as for the conservatory. It has the additional advantage of producing seeds freely and of coming true from seed. Messrs. Sander and Sons have raised some other hybrid forms of beautiful coloring, purple, rose, white, crimson, carmine: these, however, will not be put into commerce until next season (1905–1906). Nicotiana Sanderæ is undoubtedly one of the most beautiful hardy annuals ever introduced. The average height of a plant is three feet; some of the flowers are two and one-half inches across.

VISITORS TO KEW

It may be of some interest to your readers, as showing how Londoners appreciate their chief Botanic Garden, to give the number of visitors in 1903, which is the highest recorded during the last seven years, with the exception of 1901. In 1903 no less than 1,352,548 persons visited the Royal Gardens. The greatest number on any one day was 73,566 (June 1), and the smallest 116 (June 19). It is curious that the two extremes should have occurred so close together; it is probably the first time the minimum has occurred in June. During the decade ended December 31, 1903, the number of ordidary visitors to the gardens was nearly thirteen and a quarter millions. Besides these the gardens have been visited annually by thousands of botanists, gardeners, artists, etc., before the time of public opening. The large increase in the number of visitors is doubtless due to the fact that not only is Kew a unique botanical garden, but it is also a most beautiful and interesting one. The man who has a love for flowers but knows nothing about them appreciates Kew just as much as the expert. And that is just where many botanic gardens fail. If they are public gardens then I think they should be made attractive, for this can be done most successfully, as proved at Kew, without in any way detracting from their value as botanical and teaching institutions.

PROGRESS OF GARDENING

Gardening has made rapid progress in public favor during the last few years in this country; it is most clearly shown in the extraordinary increased list of members of the Royal Horticultural Society. During 1904 alone no less than 1,383 new members joined. At the last meeting held in December, forty-two were elected. During 1905 the Royal Horticultural Society will hold twenty-five exhibitions, most of them in their new hall, which was opened last year by King Edward. The estimated cost of this hall is £40,000, and a good deal, some £3,000, has still to be paid off. Minor provincial gardening societies have increased throughout the country, and some of them have a large membership. The Royal Horticultural Society has done, and is still doing, a valuable work in encouraging gardening in this country. During the London season its meetings and exhibitions are thronged by prominent members of the aristocracy.

A YELLOW BERRIED COTONEASTER

This is quite a new plant; it was shown in this country for the first time in December at a meeting of the Royal Horticultural Society. It then received a first-class certificate. The remarkable point about it is that it has clear orange-yellow berries, while all other cotoneasters in cultivation have berries of some shade of red. It thus introduces a distinct feature in one of our most useful hardy-berried shrubs, and should prove most valuable for lawn and shrubbery planting. We are indebted for its introduction to M. Maurice de Vilmorin, Paris. It was collected in China by French missionaries, who sent seed of it to M. Vilmorin; the latter raised and fruited it in his garden at Les Barres. It was shown in London for M. Vilmorin by Mr. George Paul of Cheshunt. In general appearance (save that of color) the fruit resembles that of C. Lelandii. Plants can be obtained from M. Léon Chenault, Orléans, France, or from Messrs. Robert Veitch & Sons, Exeter, England. This is perhaps the most distinct and generally useful hardy shrub that has been introduced for some time. We have had a good many new plants from China during the past few years, and we may confidently look forward to receiving others equally as valuable from that, as yet, only partially explored country.

BEST WINTER FLOWERING BEGONIAS

Winter flowering begonias are largely grown and much valued here, and rightly so, for they keep our houses bright with blossom when there is little else to have: they take up the running after the chrysanthemum is over and fill the gap splendidly. Begonia Gloire de Lorraine is still the most useful one. Turnford Hall is almost a white-flowered counterpart of the popular Lorraine. Messrs. James Veitch & Sons, Ltd., Chelsea, have raised some charming winter begonias, remarkable for their large flowers of rich and distinct coloring as well as for their profuse blooming. Among the best are Winter Cheer, Ensign, Winter Perfection, Julius and Mrs. Heal; all these are of clear shades of red or pink.

THE BEST MARKET CHRYSANTHEMUMS

It is a truism that if you want the best varieties of any flowers you must find out what the market man grows. He does not grow them unless they are really good, the colors clear and decided, and the blossoms freely produced. This is particularly true of chrysanthemums; no flower perhaps has so many varieties of "washy," undecided coloring, such as rose-pink, blush-pink, rose-red, etc. The market man discards these and grows those of self-coloring or of some decided tint. I shall not be far wrong if I say that the most popular chrysanthemum in England is Tuxedo. In this bronze and yellow blend so charmingly that they have captivated the public. The National Chrysanthemum Society held an exhibition a few weeks ago for market chrysanthemums only, and Tuxedo was quite the most popular sort shown there, winning numerous prizes. You may be interested to learn that the best white among chrysanthemums grown for market was Mdlle. Therese Pankcoucke: the best pink, Mme. Felix Perrin (Framfield Pink); the finest crimson, Violet Lady Beaumont, and Reiman the best yellow. Here you may be said to have the pick of our market chrysanthemums.

Harry H. Thomas

Formal Bedding at Girard College, Philadelphia



The formal bedding in front of Girard College, as seen in the photograph, has for many years been one of the "show" features of Philadelphia. Thousands every year visit this institution, which Stephen Girard willed to clothe, feed, and educate fatherless boys, and incidentally the brilliant coloring of the plant bedding is taken in and enjoyed.

The late highly respected George Huster, who for thirty-two years was at the head of the horticultural department at Girard College, developed this class of gardening until it is difficult to improve upon. The only opportunities remaining are in color combinations and variations in the designs of the two center round beds of the divided circular plot in front of the main building.

The two long beds on each side of the walk leading from the entrance to the main building were planted the past season with John Thorpe's S. A. Nutt zonal pelargonium, edged with Abutilon Savitzii, and the ribbon borders encircling these beds were planted with the maroon coleus, Verschæffeltii, and the yellow, Golden Bedder. The "black and white" picture does not show without looking closely where the maroon commences and the yellow ends; each color was "solid" in the spaces each occupied, from corners to corners. This was an innovation, and was pronounced very effective.

The four oval beds immediately adjoining the ribbon borders were planted with geranium John Doyle, edged with Madame Salleroi. The four beds next to the red geraniums (botanically zonal pelargoniums) were crotons (codiæums) Baron Rothschild, edged with the yellow variegated leaved Weismanii. Geranium beds alternate with the crotons around the circle. There were four beds of pink and two of white. La Favorite was the double white. The pinks in the photograph look as though they were white. The pink varieties were Jean Viaud, Mary Deering (now discarded), and what we call here Gloriaux, the latter proving to be by far the most satisfactory. It is a dwarf, short-jointed grower, and in color a pleasing light-rose pink. The trusses are not large, but numerous, and there is a persistency about the flowers that defies wind and rain, the petals drying up instead of dropping off. All the geranium beds were edged with Madame Salleroi, but we found it on the whole somewhat unsatisfactory, being uneven in its growth.

We had on trial on a small scale last summer a plant that would be commonly called one of the "dusty miller" family, and which was labelled Artimesia stelleriana. Experts among our visitors have pronounced the name incorrect, but were unable to produce any other, so that its real name is still in

doubt. We are so well impressed with it that we expect to have enough to use as an edging for all the oval geranium beds next summer.

Abutilon Savitzii was so very satisfactory that we have raised sufficient stock to use it quite plentifully in 1905. It is easily controlled by pinching, or it can be allowed to grow and be large enough for beds of cannas. We may use it as an edging for croton beds, believing the contrast will be both pronounced and pleasing.

The varieties of crotons we have found the most satisfactory, in addition to those mentioned, are Queen Victoria, Sunshine, Czar Alexander III., Faciatum, Dayspring, Andreanum, Ovalifolium, Langii, Hawkerii, and a few others. With few exceptions crotons do well generally with us. Those the most distinctive and effective are used in quantity. Personally I like Faciatum better than Andreanum; the pink tinge of coloring in the latter detracts somewhat from its effectiveness, yet the latter is a little the best doer.

Crotons ought to be more used for outdoor bedding than they are. In the vicinity of Philadelphia, if thrifty plants are set out in rich, light soil the first week in June and planted so as to give an immediate effect — provided the nights are warm enough (65° to 70°) and no cutting winds — they ought to give satisfaction. Our cuttings that will be used next summer have now (early January) been in the sand about two weeks in a night temperature of 75°, are rooting nicely and will be ready for potting within the next few days.

In the two center beds as seen in the illustration, carpet bedding is carried out. The designs, as will be seen, are not very intricate. A single flowered dahlia suggested the one herewith with some deviations. The plants used are those in use generally for such purposes, as alternantheras aurea nana, brilliantissima and Prospect Park; Echeverias secunda and secunda glauca, also a few metallica and sanguinea; Iresine Lindenii, Kleinea and Cotyledon, with crotons in center edged with Abutilon Savitzii. There were over fifteen thousand plants in those two beds. Each of the oval beds, both geraniums and crotons, takes about two hundred and fifty plants. In the long geranium beds there were fifteen hundred plants edged with seven hundred and fifty Abutilon Savitzii and fifteen hundred coleus for the ribbon borders.

EDWIN LONSDALE.

Hardy Grape-Growing



The accompanying photograph is of a vine of the same variety as was published in HORTICULTURE December 24, and although that represented a remarkable cluster to be grown in open ground, this photograph clearly demonstrates that it was not an exceptional one Fine clusters, uniform in size and lots of them, is a characteristic of the variety. These communications and illustrations are intended to awaken an interest in grape-growing in New England. There are many reasons why such an interest should prevail. It is a very pleasant occupation and can be made profitable. It can be started with but small outlay and continued at trifling expense. Any land that will grow and ripen a good crop of corn, will grow and mature a good crop of grapes that would be far more profitable. A farmer in New York last year raised on three acres of ground, nine tons of grapes and sold them for $80 per ton. Not every one can do that, but quite a small fraction of that amount would make a good income from three acres of ground.

R. B. White

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

If you have orders to give for any flowers, plants, or horticultural material of any kind, do not fail to give HORTICULTURE'S advertisers a chance. The best houses are represented in our advertising columns.

Advance orders already in the hands of importers of ornamental nursery stock indicate that the spring demand for such material will be heavy. It would not be surprising if the 1905 business in this line should be the largest on record for this country.

Observant forecasters are predicting an early spring for 1905. An early spring worthy of the name has not been experienced in Boston, at least, for many years. There have been on several occasions periods of abnormally early spring weather, which forced trees and shrubs into growth and flower only to blight them later on with an extra dose of winter frigidity. We'd rather not have an early spring, if it must be of that kind.

We note that the carnation enthusiasts are beginning to talk about six-inch flowers as a probability of the future. With due respect to this very laudable ambition, would it not be well to pause a while in the effort for bigness and seek to develop a race of good "keepers," with thick, hard-substanced petals that, once opened, will stay so. The same intelligent persistence that conquered the rust and other menacing ills of a decade ago will go far towards eliminating the sleepy carnation.

The Newport Horticultural Society has taken a most important step towards assured prosperity for the future, in establishing a building fund. A building in the business section, such as is proposed, with offices and stores to rent and commodious halls where exhibitions and meetings may be held and which may be rented for other gatherings, cannot fail of being a profitable investment. It was through this means, under wise judgment and foresight that, more than anything else, gave the Massachusetts Horticultural Society its enormous financial strength.

The elm-leaf beetle appears to have been pretty well exterminated in Eastern New England. Let us hope that the passing of this disgusting pest is permanent and that the most beautiful and best-loved of all American trees may hereafter be left free to adorn the New England landscape without an enemy to molest it. The exact cause of the disappearance is not fully known, but it is fair to give much credit therefor to the activity of the park authorities and tree wardens of the menaced communities, who put up an unrelenting fight all along the line.

A subscriber tells us of the pleasure he derives from passing HORTICULTURE around among his friends after having read it himself. This is the right spirit, for every issue of this journal contains a wealth of information presented by practical men in a useful and dignified form, and its dissemination means better horticulture and better horticulturists. So, he who induces a perusal of its columns serves his friends and the cause well. He does the paper a distinct service, also, for every new reader added to the list widens its influence and strengthens it for future usefulness.

Boston has been selected as the next meeting-place of the American Carnation Society. It was in 1895 that this organization met in Boston, under the leadership of president Eugene Dailledouze. The ever-genial Albert M. Herr was elected secretary at that meeting and has remained in unmolested possession thereof ever since. It is interesting to note that President Dailledouze advocated a plan of sectional judges to examine and report on new varieties such as is now recommended by his successor. The project was warmly commended by all the speakers at the time, yet after ten years, it stands just where it did. Among the varieties certificated at Boston in 1895, were Maud Dean, Lena Saling, Dean Hole, Storm King, Meteor, Armazindy, Triumph, and Della Fox. Among winners of the leading prizes were Alaska, Jubilee, William Scott, Tidal Wave, Buttercup, and Minnie Cook. Eldorado was a novelty and Helen Keller won the $25 special premium.

What They Say of Us

"The love of praise, howe'er conceaied by art
Reigns more or less, and glows in every heart."

I am glad that I started with the first copy. I enjoy reading it very much. — C. A. M.

I must say that I am well pleased with the appearance of HORTICULTURE and glad to say that I was a subscriber so as to receive the first copy, as I intend to keep them all. — J. T.

After Adjournment

It must have been the "office cat" that slipped that plate of Boston Horticultural Hall in an unfinished state into the forms last week. The hall itself is all right, though. Come and see it in its dress of roses next March.

Said a returned sojourner from the Carnation Annual Convention: — "Chicago — great town! Five million fancy ferns are nothing to the Chicago man in half the season. Good show and good attendance; no storm like what you had east of the Alleghenies. Fiancee showed up good; fine color, fine stem, and very large. Weber's Maryland has all the ear-marks of a winner among the whites. Robert Craig and Victory were very noticeable among the scarlets. Hospitality was the order of the day. Music, oratory, feasting, all of the highest quality. Mr. Miller, originator of the Timothy Eaton, made a hit with his little speech. Miller's all right, even if he is a Canadian.

SECRET OF SUCCESS

"What is the secret of success?" asked the Sphinx.

"Push," said the Button.

"Never be led," said the Pencil.

"Take pains," said the Window.

"Always keep cool," said the Ice.

"Be up to date," said the Calendar.

"Never lose your head," said the Barrel.

"Make light of everything," said the Fire.

"Do a driving business," said the Hammer.

"Aspire to greater things," said the Nutmeg.

"Be sharp in all your dealings," said the Knife.

"Find a good thing and stick to it," said the Glue.

"Do the work you are suited for," said the Chimney. — *Baltimore Sun.*

"Don't go to sleep," said the Carnation.

"Stay with the bunch," said the Violet.

"Keep a-climbing," said the Sweet Pea.

"Avoid tobacco," said the Greenfly.

"Hang on," said the Orchid.

The Book of Job

"Oh! that mine enemy would write a book!" said Job. Then Job could have got after him (the enemy), for, as the old song says,

"It takes time to learn every trade,
But critics, they are ready-made."

That's how I felt when I received the following letter from a dear friend. Its main point is based on the printer substituting "The" for "Mr." in a former manuscript, but there is so much wisdom, poetry, and philosophy dished up incidentally, that I am willing to be grilled for my reader's amusement.

MY DEAR GEORGE: —

"The Critic" has passed judgment of the severest kind upon your articles in this week's HORTICULTURE. There is "no hinge nor hook to hang a doubt on." You do not horticulture the English language to his satisfaction. To his mind the phraseology of your composition is like a garden barren of mystical charm. The mysterious lines that you put into your design scrape the polish off imagination. Ye gods! how can one man be the prototype of seven men (even though that man be a Stroud)? No, never; no more than one garden can be the prototype of several gardens. Fie, fie! get to work; take admonition from the book of Common Prayer and "read, mark, learn, and inwardly digest" the art of using words. Words are things that can be cultivated and watered by the dew of thought; you will find in their garden a glorious wealth of beautiful flowers suited to every purpose of the fancy, delicately humored and applied that each may be native to its place; the result will be an ideal of beautiful phraseology. "A fool must now and then be right by chance," but take no chances, be upright in all things and especially in the use of words. Do not even tread the borderland of mystery; there you are sure to get lost, for you draw a line between the mystical and mysterious that you can never cross; it is of too delicate a fiber.

You know with what fine perception of imagination the critic can apply his mind to an argument so mysterious as this, and like an ingenious spider, he weaves his cunning web seducingly to catch his prey. Beware of him. "He draweth out the thread of his verbosity finer than the staple of his argument."

And Poetry, too! Oh, Holy Smoke! How dare you knock at its portals with only "just enough learning to misquote?" Do you think it is a commodity

"Constructed by machines of different designs,
Each one with a gauge and a chopper to see to the length of the lines?"

Oh, George! what has become of your wisdom? "Wisdom is the principal thing; therefore get wisdom, and with all thy getting, get understanding." When in fancy you stood on the plains of Timbuctoo, what did you do with the missionary's coat and hat? The critic is abashed at the audacity of your quotation, but wait until he meets you face to face, "Then he will talk. Good Lord! how he will talk!"

Your friend and defender,
EDW. CAMPBELL.

I am much obliged to Mr. Campbell for this strong defense. I think he's a knocker, and his chum, "the critic," as he calls him, is a — well, he's troubled with megacephalousness of the intellect — that's what. — G. C. WATSON.

P.S. — John Birnie, are you satisfied now?

NEWPORT PERSONALS

John S. Hay, representing Henry A. Dreer of Philadelphia, was in town last week. This firm does a large plant business in Newport.

Messrs. Wm. B. Scott & Co. have added a department of seeds and plants to their business and have secured the services of Mr. M. B. Faxon, lately with the George A. Weaver Co., for manager of the new department.

Much surprise was manifested by the announcement last week that the large building on Broadway occupied by the George A. Weaver Co., was to be converted into a hotel. The seed and implement business has been conducted on the site of this building for more than sixty years by the present proprietor and his father. Mr. Weaver's continued illness is the reason ascribed for the contemplated change.

An event of more than ordinary importance was the celebration of their silver wedding by Mr. and Mrs. Robert Hunnick on Wednesday evening. More than two hundred invited guests (many coming from out of town) attended and participated in the festivities incident to the occasion.

Mr. and Mrs. Hunnick, assisted by their nephew, Mr. Ernest Duncan, and a few intimate friends, received their guests in the Merchants' Exchange Hall, where after hearty congratulations by everybody, all sat down to supper; and such a supper! And this was only the beginning, but to be brief (although brevity may be an injustice here), Mr. and Mrs. Hunnick provided an entertainment for their many friends that was elaborate, varied, and suggestive of refinement and good taste. The presents received by Mr. and Mrs. Hunnick (all silver) were numerous and costly.

The Story of the Convention Completed



GENERAL VIEW OF THE EXHIBITION

The weather in Chicago was in keeping with the winter season and we were fortunate to escape the storms prevailing in other sections of the country. Most exhibits came on morning trains, and as usual at this time of year, some trains were several hours late. However, all exhibits arrived in time for staging except those of R. Witterstaetter, Cincinnati, O., and W. J. Palmer & Son, Lancaster, N. Y. The quality of exhibits has never before approached this high standard, and the space in exhibition hall was fully occupied. There were 11 entrees in Class A for 100 white, and only 4 varieties were represented, the Belle, Lady Bountiful, White Lawson and Gov. Wolcott. For the 100 pink class there were 8 entries, of which 6 were Lawson. Cardinal won the 1st prize in 100 scarlet, with Robert Craig second. Other varieties were Victory, Estelle, and Flamingo. There were five entries in class I for gold medal. (The report on awards appeared in our issue of January 21.)

H. M. Altick of the McKinley memorial fund reported slow progress. He had sent out 20,000 pieces of mail matter, traveled over 1,000 miles, with the result of only 150 subscriptions to the fund from our 12,000 florists. It was voiced that to the trade it ought to be something beyond dollars and cents, and growers should not force up prices on that particular day. Many members pledged support and to give to fund on January 29, on Chicago basis, 5 per cent from commission men, 15 per cent from growers, 25 per cent from retailers. The American Carnation Society, on motion of W. N. Rudd, voted to place an offering of carnations on McKinley's tomb January 29.

The discussion on Prof. Hasselbring's paper was opened by W. N. Rudd. The following good points were brought out:

W. N. Rudd said carnations do run out, as can be seen in Lawson. In regard to rust, he said, keep foliage as dry as possible. Mr. Ward said that in general, disease is at a minimum and with him at this day this condition had been brought about by two things — 1st, sterilizing the soil, also the sand for propagating. 2d, propagating from healthy plants only and planting young stock that is free from disease. His compost is made richer by animal fertilizer and the use of chemical fertilizer, with a weaker and lesser quantity each year. Years ago it was thought necessary to keep a temperature 56°, but now 48°, 50°, and 52° is conceded to be high enough.

Peter Fisher said that stem rot is due to cuttings being left too long in sand and these weakened plants are thereby more subject to fungus and disease. Prof. Hasselbring said that stem rot cannot attack a healthy growing plant, and when same appears, the plant's growth has been checked which causes a disorganization of tissue resulting in stem rot and disease. C. W. Ward said that he grows all his carnations indoors and has less stem rot now. Years ago he practiced field culture and found that lifting caused a check of growth. Another cause of disease was inexperienced help and apprentices who are not reliable in watering and preventing extremes of moisture. Mr. Weber said his preventive for rot is good cultivation, ventilation, absence of extremes of temperature and moisture.

Invitations to hold the next meeting at Toronto and at Boston resulted in a vote of Boston 30 and Toronto 36. The executive committee having decided in favor of Boston, this was de-



GENERAL VIEW OF THE EXHIBITION

clared wrong, and to get the matter settled according to the constitution, was left to board of directors. Upon J. H. Dunlop's withdrawing Toronto's invitation, the board was saved the embarrassment of its decision and selected Boston as a meeting place for 1906, the meeting to be held at the same time of year as in 1905.

At the forenoon meeting of the second day, C. W. Ward, chairman, committee on President's address, recommended that the president's suggestions regarding sports be referred to the nomenclature committee. Also that a committee of three be appointed to arrange and coöperate with big fall shows.

The recommendations were adopted.

Discussing Mr. Washburn's papers, Mr. Gillette called attention to carelessness on part of many growers in packing too near end of boxes, the blooms being bruised by striking against the ends, many breaking off at the neck. He recommended that twenty-six flowers be put in each bunch.

At the afternoon session, in the discussion on Mr. Lemon's paper, E. Dailledouze said that to keep exhibition blooms the water should be about 45°; this will keep cool long enough if not too many flowers are placed in the same vessel. R. Witterstaetter said he had been successful in keeping blooms three weeks in water and up to the last day of exhibition. A few drops of aqua ammonia is beneficial in developing the blooms. Exhibition blooms are best cut about two or three days before full development and do best when kept at about 40° to 48°.

President Hartshorne appointed a committee of three, C. W. Ward, Fred Lemon, R. Witterstaetter, to present to directors plans to exhibit seedlings at fall exhibitions. On motion of J. A. Valentine, the secretary was instructed to express to William Scott, Buffalo, sympathy of American Carnation Society and hope for speedy recovery. A resolution was adopted to commend the work for floriculture at Indiana experiment station at Purdue. Mr. Valentine also proposed resolution to express the society's sympathy on loss by death of E. N. Pierce of Waltham, Mass.

On Thursday evening the visitors were in the hands of the Chicago Florists' Club. The lady visitors were entertained at supper and the theater.

The gentlemen were the guests of the Club at a banquet at the Auditorium. The decorations were very fine. The speaker's table was in red — Rose Richmond, Red Lawson, Cardinal, and Pierson's Tarrytown ferns being used. W. N. Rudd was toastmaster. The orchestra was screened by a beautiful group of palms, intermingled with Roses La Detroit, Rosalind Orr English, and Wellesley. The attendance was about two hundred and fifty.



FIANCEE ADONIS ROBERT CRAIG CARDINAL MY MARYLAND

GOLD MEDAL CANDIDATES AT CHICAGO

The Banquet

After the royal feast, toastmaster W. N. Rudd opened with this greeting: "*Mr. President, Officers, and Gentlemen:* It indeed gives me much pleasure to address you here this evening. Your first meeting held in this city was held in this room, and after seven years I greet you all here once more. It took hard work to decide the next meeting-place, and, gentlemen, to-night I am urged to suggest that we meet in Chicago again the next year." (Applause.)

Mr. Peter Fisher responded for "The American Carnation Society." He said: "A few years ago it was predicted that the 4-inch carnation would be the limit of size, but we are nearing an ideal of 6 inches. This society has been very successful; we are growing in membership, also enthusiasm. Come to Boston next year and bring your best with you."

E. G. Hill, responding to "Frenzied Floriculture," said: "I am glad to be present here to-night at the auspicious event; this is a most interesting crowd. I'm no phenomenal speaker, but will just make a plain Richmond effort. Frenzied Floriculture stumps to me are new, and if I hailed from Boston, the assignment might be more in keeping. William Scott could do the subject as-assigned me justice. I think it's a mistake to over-exploit anything. Mr. Fisher and Mr. Pierson and several others do not enjoy the notoriety given by the press. We do not need such reports to promote our business. The question of good flowers and truthful statements go farther. We should use better judgment in selection of varieties. There is no reason why we should have Lawson one-half of the entire crop planted. The florists have been foolish in regard to over-heating houses and much money is wasted. We ought to call in experts on such subjects."

J. C. Vaughan responded for "Conventions and Flower Shows," and F. C. Miller of Bracondale, "The Good Old Times."

C. W. Ward's subject was "What About the Future?" So far as the future is concerned, it seems Uncle Thorpe's ideal is nearly realized. I do not believe the limit of size stands at 4 inches for a carnation flower. We measured 4½ inch blooms on stems 36 inches long and the stems were rigid. I believe we can yet get them 6 inches in diameter. I expect to realize it within the next ten years. The improvement will not be limited to the flower — everything will be better. Our sons will be ambitious to outshine our achievements. The old jealousies are already disappearing and the florist is rapidly elevating himself. These meetings have helped to accomplish all this. On my trip abroad I found that a membership in this society was a good introduction to the best people in horticulture. Floriculture is the greatest means of refinement we have.

Speeches by F. Dorner, Jr., F. R. Pierson, L. Ullrich and P. Hauswirth; stories by Mr. Williams of Joliet, songs by W. J. Lawrence, the presentation of the Lawson medals, and the report of the committee on final resolutions, followed. Then Mr. Rudd, on behalf of the Chicago Florists' Club, said:

"We are deeply grateful and highly honored because you selected this place of meeting, and in return pledge to go to Boston with the largest delegation and more flowers than ever before."

On Friday, January 27, a party of eighty visited the Joliet establishments, chaperoned by James Hartshorne. Many words of praise were heard for the two establishments there.

A lunch was given at the Elks Hall where the mayor turned the city over to the flower men. Many visitors went to Richmond, Ind., Cincinnati, O., and Indianapolis before going home.

P. J. Hauswirth, of Chicago, was the recipient of a beautiful gold watch, presented by the World's Fair Flower Show Association, for his creditable work as Superintendent of World's Fair Flower Show held in St. Louis, November, 1904.

Supplementary Report of the Judges on Miscellaneous Exhibits

B. K. & B. Floral Co., Richmond, Ind. Display of carnation Richmond Gem.

J. A. Peterson, Cincinnati, O. Begonia Turnford Hall.

E. G. Hill Co., Richmond, Ind. Rose Richmond; a magnificent rose, beautifully staged.

Rosalind Orr English; a beautiful pink rose.

Nathan Smith & Son, Adrian, Mich. Chrysanthemum, John Burton; remarkably good for so late a date.

R. Witterstaetter, Cincinnati, O. A fine exhibit, too late for competition. Afterglow, Aristocrat, and 1021–B1, were among the undisseminated carnations of unusual excellence. Also a well-done vase of Lady Bountiful.

F. Dorner & Sons, Lafayette, Ind. A striking vase of many unnamed seedlings made a very interesting display.

F. R. Pierson Co., Tarrytown, N. Y. Honorable mention for Variegated Lawson. Also showed a good display of White Lawson and Tarrytown Fern.

Cottage Gardens, Queens, N. Y. A large display of unnamed seedlings.

Waban Conservatories, Natick, Mass. Rose Wellesley.

J. M. Gasser Co., Cleveland, O. Rose Gen. MacArthur.

Indianapolis Flower & Plant Co. and John Hartje, Indianapolis, Ind. Carnations, Candace, a pretty pink; Coral, promising Daybreak; Allspice, variegated.

Swan-Peterson Floral Co., Gibson City, Ill. The Belle and a nice display of other varieties.

Vaughan's Seed Store. Display of Boston Ferns.



LIEUT. PEARY, Scored 88 points and a Certificate



CONVENTIONISTS INSPECTING "FIANCEE" CUTTINGS
At Chicago Carnation Co., Joliet, Ill.

J. Breitmeyer's Sons, Mt. Clemens, Mich. Rose La Detroit and a fine display of Antirrhinums.

Eli Cross, Grand Rapids, Mich. A good display of violets, single and double.

Robert Klegge, Mt. Clemens, Mich. An interesting lot of seedling carnations.

W. J. Palmer & Son, Lancaster, N. Y. A very fine exhibit of Red Lawson, which arrived late Wednesday evening and was awarded honorable mention.

Davis Bros., Geneva and Morrison, Ill. Exhibit of Boston Ferns.

The Cleveland Cut Flower Co., Cleveland, O., showed a new style bench made of tile.

The King Construction Co., Toronto. Section of iron gutter.

A. Dietsch, Chicago. Section of patent wooden U gutter.

G. W. Neff & Co., Richmond, Ind. Carnation support.

Other Miscellaneous Exhibits

Eagle Machine Works, Richmond, Ind. Wire carnation support.

King Construction Co., North Tonawanda, N. Y. Section of iron gutter.

Dietsch Co., Chicago. Section of patent gutter.

NEWS OF THE CLUBS AND SOCIETIES

The annual banquet of the Duchess County Horticultural Society will take place at the Nelson House, Poughkeepsie, N. Y., on February 9.

The local Florists' Society will hold a monthly meeting Tuesday night, February the 7th, at the residence of Joseph Wettle, on Broadway. There is a good time in store, also many club matters of importance.

The Cleveland (O.) Florist Club will hold a carnation exhibition in the Club room at its next meeting, February 13th. Any one desiring to make an exhibit can address the flowers to the secretary, Isaac Kennedy, in care of the Cleveland Cut Flower Co., 52 High Street.

It will be Carnation Night at the Florists' Club of Philadelphia on Tuesday, February 7th, when it is hoped and expected that all the meritorious varieties, whether new or old, will be on exhibition. If they cannot be brought to the meeting, they may be sent prepaid by express in care of David Rust, Horticultural Hall, Broad Street, Philadelphia, Pa. EDWIN LONSDALE, *Secretary*.

At the meeting of the New Hampshire Horticultural Society on January 18, Prof. F. W. Rane of Durham and Philip W. Ayres were appointed a committee of two with power to act in coöperation with a similar committee from the Society for the Protection of New Hampshire Forests, which joint committee is requested to coöperate with the authorities in Massachusetts who are seeking to exterminate the brown-tail moth.

The society urges the towns in the southern tier of the State where this pest is already making headway to take immediate action in destroying all nests before the first warm days of spring.

A grand carnation exhibition will be held at the St. Louis Florist Club meeting rooms on February 9th, at 2 o'clock P.M., in Odd Fellows' Building, S. E. corner Ninth and Olive Streets, eighth floor, Hall No. 2. The Club has offered $50 in prizes: $25 for outside growers, and $25 for local growers.

Blooms are to be judged by points, according to the rules of the American Carnation Society.

Growers of new varieties are requested to send exhibition blooms.

Stock should be sent prepaid to any of the following named wholesalers who can also supply schedules of the prizes:

C. A. Kuehn, 1122 Pine Street; F. M. Ellis, 1316 Pine Street; H. G. Berning, 1402 Pine Street.

The call sent out for a meeting of St. Louis growers resulted in nineteen florists being present, some being former members of the old club, others members still. F. W. Ude was chosen as temporary president, and E. H. Michel, secretary. Henry Berning acted as sergeant-at-arms and no wholesalers or retailers got into the meeting that night. It was decided to name the club The St. Louis Plant Growers' and Flower Association. James W. Dunford of Clayton, St. Louis Co., made an address, stating the objects of this club.

The largest and best growers in St. Louis were conspicuous for their absence, and will remain with the older body. The store men and other two wholesalers were not wanted. The object of this new club is still a mystery to most of us in the trade, unless it be a direct opposition to the parent body. If so, we think they will find out that they will have to travel "the Rocky Road to Dublin."

The "Golden Jubilee" of the Western New York Horticultural Society was held at Rochester on January 26, President W. C. Barry presiding. Between 200 and 300 members were present.

George G. Atwood, chief inspector of the State Department of Agriculture, read an interesting and particularly instructive paper on "The Gypsy Moth," which was listened to with the closest attention by the members.

Mr. Atwood described minutely the gypsy moth, how it is spread and grows, and the effect it has on the fruit. He stated that it is only of late that the nature of the damage done by the gypsy moth has come to be fully realized by those who grow fruit and who are interested in preserving their orchards.

In the estimation of Mr. Atwood the government authorities should be just as anxious to prevent the importation and spread of this pest as it is to put down the boll weevil. He stated that the power for damage held by the gypsy moth is fully as dangerous to the country's interests as that of the boll weevil.

"Up to the present time some difficulty has been experienced in convincing the government authorities of the necessity of appropriating money to prevent the spread of the gypsy moth and to exterminate it in sections where it prevails. Of late some impression has been made on the authorities, and it is likely that in the near future more attention will be paid to it.

"The gypsy moth, if allowed to grow and spread unchecked, can do fully as much damage to the country's interests as the boll weevil, of which we hear so much. If the government is to take steps to prevent the importation and spread of one of these evils, why neglect the other?"

The premium schedules for the exhibitions of the Newport Horticultural Society will be printed and in the hands of the members and intending exhibitors much earlier this year than formerly. The Legislature has already given favorable consideration to the appropriation bill, in which provision is made for this society. The money thus given is used exclusively for premiums to persons resident within the State. Competition is not restricted, however, because the society appropriates out of the treasury every year a sum for premiums and a good deal in excess and in addition to that given by the State, thus leaving many classes open. It is the intention of the schedule committee this year to urge the need for more open classes, which if heeded, as doubtless it will be, means that nearly all the important classes for cut flowers will be open for outside competition.

Prof. John Barlow of the Rhode Island College of Agriculture and Mechanic Arts will address a public meeting of the Newport Horticultural Society on "Economic Insects." Professor Barlow will illustrate his address with lantern slides. Each year the addresses by the professors from the college are looked forward to with much interest by the members of the society. Invariably these addresses are on subjects with which many of the audience are somewhat familiar, and greatly interested in, and the lecturer usually treats his subject in such a pleasing way that what might be supposed to be "dry" turns out to be anything but that.

The "embattled farmers" of Amherst, Mass., have executed a flank movement at the State House, the object of their attack being the appropriation towards the maintenance of the different departments which they assert enables the Agricultural College to undersell them on garden truck, and the local florists are also lining up with a similar grievance.

The greenhouses of Mrs. J. W. Butterfield at South Sudbury, Mass., were burned on Saturday night, January 14.

American Rose Society

Schedule of Prizes offered at the Annual Meeting and Exhibition to be held in connection with the Spring Exhibition of the Massachusetts Horticultural Society, March 23–26, 1905 —

TEAS AND HYBRID TEAS

DIVISION A. Twenty-five Cut Blooms.

OPEN TO ALL.

CLASS.

A 1. American Beauty (stems not to exceed four feet) $10, $7
A 2. Queen of Edgely 10, 7

In all the following classes prizes are: First, $10; Second, $5 : —

CLASS.		CLASS.	
A 3.	Bride.	A 17.	Niphetos.
A 4.	Bridesmaid.	A 18.	Papa Gontier.
A 5.	Kais. Aug. Victoria.	A 19.	Bon Silene.
A 6.	Meteor.	A 20.	La France.
A 7.	Mrs. P. Morgan.	A 21.	Mrs. Oliver Ames.
A 8.	Souv. de Wootton.	A 22.	Ivory.
A 9.	Mme. Cusin.	A 23.	Lady Dorothea,
A 10.	Mme. Hoste.	A 24.	Mrs. Robt. Garrett.
A 11.	Mme. Car. Testout.	A 25.	Belle Siebrecht.
A 12	Souv. du Pr. Carnot.	A 26.	Ma Capucine.
A 13.	Perle des Jardins.	A 27.	Safrano.
A 14.	Sunset.	A 28.	Mme. de Watteville.
A 15.	Golden Gate.	A 29.	Liberty.
A 16.	Mme. Chatenay.	A 30	Sunrise.

A 31. Any other named disseminated variety.

NOTE. — Any variety not named above may be shown in Class A 31, and first and second prizes may be awarded to *each variety* shown (at the discretion of the judges). Entries are unlimited.

DIVISION B. Twelve Cut Blooms.

OPEN TO GROWERS HAVING NOT MORE THAN FORTY THOUSAND FEET OF GLASS IN ROSES.

CLASS.

B 32. American Beauty (stems not to exceed four feet) $5, $3
B 33. Queen of Edgely 5, 3

In all the following classes prizes are: First, $5; second, $3 : —

CLASS.		CLASS.	
B 34.	Bride.	B 48.	Niphetos.
B 35.	Bridesmaid.	B 49.	Papa Gontier.
B 36.	Kais. Aug. Victoria.	B 50.	Bon Silene.
B 37.	Meteor.	B 51.	La France.
B 38.	Mrs. P. Morgan.	B 52.	Mrs. Oliver Ames.
B 39.	Souv. de Wootton.	B 53.	Ivory.
B 40.	Mme. Cusin.	B 54.	Lady Dorothea.
B 41.	Mme. Hoste.	B 55.	Mrs. Robt. Garrett.
B 42.	Mme. Car. Testout.	B 56.	Belle Siebrecht.
B 43.	Souv. du Pr. Carnot.	B 57.	Ma Capucine.
B 44.	Perle des Jardins.	B 58.	Safrano.
B 45.	Sunset.	B 59.	Mme. de Watteville.
B 46.	Golden Gate.	B 60.	Liberty.
B 47.	Mme. Chatenay.	B 61.	Sunrise.

B 62. Any other named disseminated variety.

NOTE. — Any variety not named above may be shown in Class B 62, and first and second prizes may be awarded to *each variety* shown (at the discretion of the judges). Entries are unlimited.

DIVISION C. Twelve Cut Blooms.

OPEN TO PRIVATE GARDENERS AND AMATEURS ONLY.

CLASS.

C 63. American Beauty (stems not to exceed four feet) $5, $3
C 64. Queen of Edgely 5, 3

In all the following classes prizes are: First, $5; second, $3: —

CLASS.		CLASS.	
C 65.	Bride.	C 79.	La France.
C 66.	Bridesmaid.	C 80.	Mrs. Oliver Ames.
C 67.	Kais. Aug. Victoria.	C 81.	Ivory.
C 68.	Meteor.	C 82.	Lady Dorothea.
C 69	Mrs. P. Morgan.	C 83.	Mrs. Robt. Garrett.
C 70.	Souv. de Wootton,	C 84.	Belle Siebrecht,
C 71.	Mme. Cusin.	C 85.	Ma Capucine.
C 72.	Mme. Hoste.	C 86.	Safrano.
C 73.	Mme. Car. Testout.	C 87.	Sunset.
C 74.	Souv. du Pr. Carnot.	C 88.	Golden Gate.
C 75.	Perle des Jardins.	C 89.	Mme. Chatenay.
C 76.	Niphetos.	C 90.	Mme. de Watteville.
C 77.	Papa Gontier.	C 91.	Liberty.
C 78.	Bon Silene.	C 92.	Sunrise.

C 93. Any other named disseminated variety.

NOTE. — Any variety not named above may be shown in Class C 93, and first and second prizes may be awarded to *each variety* shown (at the discretion of the judges). Entries are unlimited.

HYBRID PERPETUALS

DIVISION D. Twelve Cut Blooms (stems not less than twelve inches).

OPEN TO ALL.

Prizes : First, $10; second, $5.

CLASS.		CLASS.	
D 94.	Ulrich Brunner.	D 105.	Capt Hayward
D 95.	Mrs John Laing.	D 106	Prince C du Rohan
D 96.	Gabriel Luizet	D 107.	Duke of Edin'bgh
D 97.	S. de Rodocanachi	D 108.	Magna Charta.
D 98.	Paul Neyron.	D 109.	Capt. Christy.
D 99.	Anne de Diesbach	D 110.	Clio.
D 100.	Bar'n's Rothschild.	D 111.	Gen. Washington
D 101.	Merv de Lyon	D 112.	Mme. Chas Wood.
D 102.	Mabel Morrison.	D 113.	Reynolds Hole.
D 103.	Mrs S. Crawford.	D 114	Marie Baumann
D 104.	Gen. Jacqueminot.	D 115.	Fisher Holmes

D 116. Any other named disseminated variety.

NOTE. — Any variety not named above may be shown in Class D 116, and first and second prizes may be awarded to *each variety* shown (at the discretion of the judges). Entries are unlimited.

DIVISION E. Twelve Cut Blooms (stems not less than twelve inches).

OPEN TO PRIVATE GARDENERS AND AMATEURS ONLY.

Prizes: First, $10; Second, $5.

CLASS.		CLASS.	
E 117.	Ulrich Brunner.	E 128.	Capt. Christy.
E 118.	Mrs. John Laing.	E 129.	Clio.
E 119.	Gabriel Luizet	E 130.	Gen. Washington.
E 120.	S. de Rodocanachi	E 131.	Merv. de Lyon
E 121.	Paul Neyron.	E 132.	Mabel Morrison
E 122.	Anne de Diesbach	E 133.	Mrs. S. Crawford.
E 123.	Bar Rothschild	E 134.	Gen Jacqueminot.
E 124.	Capt. Hayward.	E 135.	Mme. Chas. Wood.
E 125.	Prince C de Rohan.	E 136.	Reynolds Hole.
E 126.	Duke of Edinb'gh.	E 137.	Marie Baumann.
E 127.	Magna Charta.	E 138.	Fisher Holmes.

E 139. Any other named disseminated variety.

NOTE. — Any variety not named above may be shown in Class E 139, and first and second prizes may be awarded to *each variety* shown (at the discretion of the judges). Entries are unlimited.

DIVISION F. Special Prizes for Cut Blooms.

CLASS.

F 140. For display of cut blooms of roses not less than five varieties, and not less than twenty-five blooms of any one variety to be competed for by growers outside of a radius of one hundred and fifty miles of Boston as measured by railroad time tables . . Silver cup, value $100
Prize presented by Benjamin Dorrance.

F 141. Twenty-five blooms of any Red Rose, not disseminated previous to 1903 . . $25, $15
Offered by John B. Nugent, Jr.

F 142. Twenty-five blooms of any Pink Rose, not disseminated previous to 1903 . . $25, $15
Offered by John B. Nugent, Jr.

F 143. Twenty-five blooms of any American Seedling Rose, introduced in or since 1901 . . . . . $25
Offered by President Alexander Montgomery.

F 144. Fifty blooms of Killarney, grown within two hundred and fifty miles of Boston $25
Offered by Siebrecht & Sons.

F 145. Fifty blooms of La Detroit . . $50, $30, $20
Offered by John Breitmeyer's Sons.

F 146. Display of blooms, not less than ten varieties, in a space of fifty square feet (twenty points allowed for effect) . . $50
Offered by Treasurer John N. May.

F 147. Fifty blooms American Beauty Rose, the "*Executive Committee's Prizes*" . $50, $25

The Lord & Burnham Trophy, valued at $250, presented by the Lord & Burnham Co., will be awarded in conjunction with the first (cash) prize for fifty American Beauty Roses in this class, and will become the property of the competitor winning it twice hereafter, consecutively or otherwise.

F 148. Fifty blooms of any other variety . $20, $15
Exhibitors may use their own vases.

F 149. Six blooms of any variety introduced in 1901, or subsequently $5, $3

F 150. Twenty-five blooms of any Rose of American origin, not yet in commerce, either Tea or Hybride Tea, seedling or sport. Silver Cup, value $50

FOR PRIVATE GARDENERS ONLY.

F 151. Twenty-five blooms of H. P. Roses, not less than six varieties. Silver Cup, value $25. Or cash if preferred.
Offered by E. A. Clark.

POT PLANTS

DIVISION G. OPEN TO ALL.

G 152. Twenty-five H. P. Roses in pots, not less than ten varieties . Silver Cup, value $50
Presented by Col. Charles Pfaff.

G 153. Twelve H. P. Roses in pots, not less than five varieties $25
Offered by M. H. Walsh.

G 154 Six plants, any one variety (not climbers) in not larger than eight inch pots . $8, $5

NOTE — Prizes may be awarded for *each variety* shown, at the discretion of the judges, and entries in this class are unlimited.

G 155. Specimen plant in pot (not climber) $10, $5

CLIMBING ROSES IN POTS

G 156. Specimen plant, trained or not, in tub or pot (not less than twelve inch) . $12, $8
G 157. Crimson Rambler, six plants . . $12, $8
G 158. Six plants, distinct varieties, in not exceeding seven-inch pots . . . $12, $8
G 159 Display of Rambler and Climbing Roses in pots, covering not less than fifty square feet $25
Special prize offered by F. R. Newbold.

G 160. Specimen Wichuraiana Hybrid, any variety $15
Offered by Benjamin Hammond.

AMERICAN ROSE SOCIETY'S MEDALS FOR NOVELTIES

Gold medal for the best new Rose not yet disseminated, whether of domestic or foreign origin. Exhibits to be judged by the official scale of the American Rose Society, and no gold medal to be awarded to any Rose scoring less than 95 points.

Silver medal is offered at the same time and under the same conditions for a novelty scoring not less than 85 points.

It is further ordered that the complete scores of all entries in the competition be filed with the Secretary of the American Rose Society before the award of any medal is confirmed. No duplicate medals will be awarded. It is understood that though the award of the gold or silver medal may be made to the same variety from one exhibitor exhibited in different centers, only one medal will be delivered to the exhibitor.

The Executive Committee of the American Rose Society reserves to itself the right of selection of the judges who shall pass upon the exhibits in the competition for these medals

WM. J. STEWART, *Secretary.*
11 Hamilton Place, Boston.

NEW YORK vs. MADISON

The warriors from New York sallied forth again last Thursday against the Jerseyites and scooped in two games out of three with the Madison bowlers. More than that, their man, Phil Kessler, made the highest score — 202 — and the highest average — 182 — for the evening. Heavy offers have been made to New York for him, but they refuse to sell him at any figure. Following are the scores:

Madison

Duckham	136	146	185
Robbins	117	133	136
Keating	134	182	133
Plusch	112	181	158
Totty	126	91	101
Cook	145	158	183

New York

Holt	121	200	125
Kessler	202	176	169
O'Mara	138	157	131
Ford	141	184	127
Siebrecht	138	142	176
Fenrich	130	167	120

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	CHICAGO Jan. 31	ST. LOUIS Jan. 30	PHILA. Jan. 30	BOSTON Feb. 2
ROSES				
Am. Beauty, Fan. & Sp.	32 00 to 40 00	40 00 to 50 00	50.00 to 60.00	60.00 to 75.00
" Extra	..... to 25.00	25.00 to 35.00	25.00 to 40 00	40.00 to 50.00
" No. 1	..... to 20 00	8.00 to 17.00	20 00 to 25 00	15.00 to 30.00
" Lower grades	4 00 to 12 00	4.00 to 6.50	4.00 to 12.00	6.00 to 10 00
Bride & Maid—Fan. & Sp.	12.00 to 15 00	..... to 12.50	15.00 to 18.00	18 00 to 25.00
" " Extra	10 00 to 12.00	..... to 10.00	15 00 to	12.00 to 15.00
" " No. 1	8 00 to 10.00	..... to 8.00	10.00 to 12.00	6.00 to 8.00
" " Lower gr.	4 00 to 6 00	5 00 to 6.00	3 00 to 6.00	3.00 to 5.00
Liberty, Fancy & Special	12 00 to 15 00	..... to 12 50	30.00 to 35.00	20.00 to 25.00
" extra	10 00 to 12.00	..... to 10.00	20.00 to 25.00	12.00 to 16.00
" No. 1	8 00 to 10.00	..... to 8.00	12.00 to 15.00	6.00 to 8.00
" Lower grades	4 00 to 6 00	4 00 to 6.00	3.00 to 8.00	4.00 to 6.00
Golden Gate } Best	10 00 to 12 00	.. .. to 12 50	15 00 to	..... to .....
Ivory } Medium	6.00 to 8.00	8.00 to 10.00	10 00 to 12 00	8.00 to 10.00
Chatenay } Culls	4.00 to 6.00	5 00 to 6.00	3.00 to 6.00	4.00 to 6.00
CARNATIONS				
Fancy Class	4.00 to 6.00	4.00 to 5 00	4.00 to 6.00	3 00 to 5.00
General Class	3 00 to 4.00	..... to 3.00	3.00 to 4.00	2 00 to 3.00
Lower Grades	2.00 to 2 50	..... to 2.50	1.00 to 2.00	1.00 to 1.50
VIOLETS				
Special	.75 to 1.00	..... to 1.00	.50 to .75	..... to .....
General	....50 to .75	..... to .75	.50 to	.25 to .50
Single	..... to	..... to .50	.35 to .50	.25 to .50
ORCHIDS				
Cattleyas	40 00 to 60 00	..... to	50.00 to	..... to .....
Cypripediums	12 50 to 16 00	.... to	15.00 to	..... to .....
BULBOUS				
Lilies	12.50 to 20.00	..... to	15.00 to	10.00 to 12.00
Lily of the Valley	3 00 to 5.00	..... to 4.00	3 00 to 5.00	2.00 to 3.00
Roman Hyacinths	3 00 to 4 00	..... to 3 00	2.00 to 3.00	1 00 to 2.00
Paper White Narcissus	3 00 to 4.00	... .. to 3 00	2.00 to 3.00	1.00 to 2.00
Trumpet Narcissus	2 00 to 5 00	..... to	4 00 to 5.00	2.00 to 4.00
Tulips	2 00 to 5 00	..... to	3.00 to 4 00	2 00 to 4.00
Callas	12 50 to 15 00	..... to 15.00	8.00 to 12.00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4 00 to 10 00	3.00 to 6 00	3.00 to 5 00	2.00 to 3.00
Sweet Peas	...50 to 1.00	.50 to .75	.50 to 1.00	.75 to 1.00
Adiantum Cuneatum	75 to 1.00	..... to	1 00 to	..... to 1.00
" Crowe..num	..1.25 to 1.50	..... to	1.50 to	..... to .....
" Farleyense	..... to	..... to	10 00 to	..... to .....
Smilax	..... to 12.50	..... to 15.00	10.00 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	50.00 to	35.00 to 50.00
" bunches	25 00 to 35 00	..... to	50.00 to 75 00	35.00 to 50.00
" Sprengeri "	25 00 to 35 00	..... to	50.00 to 75.00	25.00 to 35.00
Stevia	.. .. to	..... to	..... to	..... to .....

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WHOLESALE FLORISTS

BOSTON MARKET REPORT

This market is strong on carnations, but no increase in price is noted. Fancy carnations are particularly good stock just now. The small varieties, when of good quality, sell well also. The greatest drawback is the number of split calyxes in evidence. Rarely do we see so much of this defect in this market. American Beauty roses are decidedly scarce and so are Brides and Bridesmaids. The supply of the two latter is entirely inadequate to the demand, and anything of fair grade with good stem can be disposed of at sight. Bulbous stock, including freesia, lily of the valley, hyacinths and daffodils, single and double, is overstocked. On first call, quoted figures are realized, but last call, after the stock has been housed by the wholesalers for a couple of days, brings down quantities of this material at half price. Violets are overloaded and prices already at the spring notch.

CHICAGO MARKET REPORT

An irregular cut flower market prevailed the past week. A fair shipping demand aided trade which otherwise might have broken badly. Commencing with Wednesday, an improvement was noted. The Beauty crop is diminishing, and returns for such as are sent in should now take on prosperous proportions. Good teas are also in light supply, and anything of extra quality easily brings above published quotations. The demand generally for teas seems impossible to fill. Carnations have gained over last reports. The supply for Friday and Saturday was liberal and was quickly bought up at quoted rates, the McKinley Day demand helping, and the red varieties showing most strength.

Since supply and demand regulate prices on such occasions, the attitude of wholesalers and retailers was commendable in that they were not disposed to force prices, and the growers should join in the spirit, send in fresh flowers, and be satisfied with reasonable prices. otherwise the high prices will react on the carnation industry.

The receipts of violets continue heavy and prices weak. Tulips are improving in quality and Stollery Bros.' top-finished La Reine are quickly taken at 5 cents. There has been a good call for narcissi and Roman hyacinths. Harrissi clean out daily and therefore callas are sometimes substituted. Orchid consignments are received daily at McKellar's, which include all seasonable varieties, among which I noticed some fine white cattleyas and dendrobiums. The green market is steady, adiantum being the shortest item. Supply of smilax is equal to the call.

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INDIANAPOLIS MARKET REPORT

The month of January favored us with a mixture of weather which would be hard to beat. Everything was represented, from blizzards and extremely cold weather to thaws and rain storms. At present writing the outlook for bright, clear weather is promising. January business has been disappointing, especially following the holidays. Prospects point now toward a slight improvement as society seems to be lvening up. The supply has been very heavy in all lines, especially in tea roses and carnations. Bulbous stock is moving very slowly, with supply greatly in excess of demand. Violets and home-grown lily of the valley are becoming plentiful and are not selling clean by any means.

Great quantities of finely grown azaleas, cinerarias, cyclamens and primulas are in the market, on which sales are reported slow. Sweet peas and mignonette are in fair quantity and find ready sale. Plant decorations for funerals are called for more than ever and becoming quite as necessary as cut flowers and floral designs.

PITTSBURG MARKET REPORT

Pittsburg was struck very hard with zero weather on Wednesday last, and countless ills beset the city as a result of frigid weather, and most florists who use gas for heating, found the shortage season is on. Trains were delayed for twenty-four hours from New York and Philadelphia, the result creating a famine in Beauties and violets; however, western trains came in on time. In anticipation of a rush for carnations for McKinley Day, all the wholesale houses had an abundance to supply the demand. Lilies (Harrisii) are very scarce.

Bulbous stock, such as tulips, narcissi, freesias, and Roman hyacinths are plentiful, and good grades are coming in.

PHILADELPHIA MARKET REPORT

A fair week, notwithstanding the heavy storm and delays in delivery. A good deal of stock came in frozen. Beauties shortened up somewhat in quantity. Liberty still in good supply. Brides and Bridesmaids normal. Supply fair and quality good. Carnations very scarce on account of delayed shipments. McKinley day did not seem to have any great effect on the market. The violet market is still rather ragged. Very little life in it this season. Cattleyas moving well at the old figure. A good many callas and Harrisii lilies are coming in and going fairly well, especially Harrisii. All bulbous stock, mignonette, snap dragon, primulas, myosotis, and other miscellaneous material all in fair demand and in good supply.

Gustave Hoffman, who has conducted a greenhouse business in Huntsville Ala., for the past year, disappeared two weeks ago and has not been heard from since. He is a member of the S. A. F.

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Always Reliable for Flowers Consigned or ORDERS Given
OPEN 6 A. M.
Write for Market Prices on Flowers
106 W. 28th Street New York

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending Jan. 28, 1905.	First Half of Week ending Feb. 4, 1905.
ROSES		
Am. Beauty, fan. and sp	50 00 to 75 00	50.00 to 75.00
" extra	25 00 to 40 00	30.00 to 40 00
" No. 1	8 00 to 30 00	20.00 to 30.00
" Lower grades	1 50 to 6.00	3.00 to 12.00
Bride and Maid, fan. and sp	12 00 to 15.00	12.00 to 15.00
" " extra	6 00 to 10 00	6.00 to 10.00
" " No. 1	5 00 to 6 00	5.00 to 6 00
" " Lower gr	3.00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	25 00 to 40.00	25.00 to 40.00
" extra	15 00 to 20 00	15.00 to 20.00
" No. 1	6.00 to 10 00	6.00 to 10.00
" Lower gr	3.00 to 4 00	3.00 to 4.00
Golden Gate, Ivory, Chatenay — Best	12.00 to 15 00	12.00 to 15.00
Golden Gate, Ivory, Chatenay — Medium	6 00 to 8.00	6.00 to 8.00
Golden Gate, Ivory, Chatenay — Culls	3.00 to 4.00	3.00 to 4.00
CARNATIONS		
Lawson Class	4.00 to 6 00	4.00 to 6.00
General Class	2.00 to 3 00	2.00 to 3.00
Lower Grades	1.00 to 1.50	1.00 to 1.50
VIOLETS		
Special	.50 to .75	.50 to .75
General	.35 to .50	.35 to .50
Single	.35 to .50	.35 to .50
ORCHIDS		
Cattleyas	25 00 to 50 00	25.00 to 50 00
Cypripediums	10.00 to 12.00	10 00 to 12 00
BULBOUS		
Lilies	10 00 to 12 00	10.00 to 15.00
Lily of the Valley	1 00 to 4 00	1.00 to 4.00
Roman Hyacinths	1 00 to 2 00	1.00 to 2.00
Paper White Narcissus	1 50 to 2 00	2.00 to 3.00
Trumpet Narcissus	2.00 to 3.00	2.00 to 3.00
Tulips	1 50 to 6 00	2.00 to 6.00
Callas	6.00 to 12 00	10.00 to 12.00
MISCELLANEOUS		
Mignonette	2 00 to 8 00	3.00 to 8.00
Sweet Peas	1 00 to 2 00	..... to 2.00
Adiantum Cuneatum	.50 to 1 00	.50 to 1.00
" Croweanum	... to 1 50	..... to 1.50
" Farleyense	... to	..... to .....
Smilax	8 00 to 20 00	10.00 to 20.00
Asparagus Plumosus, strings	25 00 to 50 00	25.00 to 50.00
" " bunches	20.00 to 40 00	20.00 to 40.00
" Sprengeri "	20 00 to 35 00	20.00 to 35 00
Stevia	... to	..... to .....
Lilac, per bunch	..... to	..... to .....

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Wholesale Commission Florists
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WHOLESALE FLORISTS
54 W. 28th St., New York
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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

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Choicest Stock in New York Market for Special Work
Wholesale Rates
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BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Jan. 24	BALTIMORE Jan. 30	BUFFALO Jan. 31	PITTSBURG Jan. 31
ROSES				
Am. Beauty, fan. and sp.	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
" extra	..... to 35.00	35.00 to 40.00	25.00 to 35.00	30.00 to 40.00
" No. 1	..... to 25.00	25.00 to 30.00	15.00 to 20.00	15.00 to 20.00
" Lower grades	4.00 to 8.00	5.00 to 15.00	3.00 to 6.00	8.00 to 10.00
Bride and 'Maid, fan. and sp.	10.00 to 12.00	10.00 to 12.00	..... to	15.00 to 18.00
" " extra	8.00 to 10.00	8.00 to 10.00	12.00 to 15.00	10.00 to 12.00
" " No. 1	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
" " Lower gr.	2.00 to	4.00 to 5.00	3.00 to 6.00	4.00 to 5.00
Liberty, fan. and sp.	8.00 to 10.00	..... to	15.00 to 20.00	..... to 15.00
" extra	6.00 to	..... to	12.00 to 15.00	..... to .....
" No. 1	5.00 to	..... to	8.00 to 10.00	..... to 6.00
" Lower gr.	2.00 to 3.00	..... to	3.00 to 6.00	..... to .....
Golden Gate } Best	8.00 to 10.00	10.00 to 12.00	8.00 to 10.00	..... to 8.00
Ivory } Medium	6.00 to	6.00 to 8.00	5.00 to 7.00	3.00 to .....
Chatenay } Culls	6.00 to 10.00	4.00 to 5.00	2.00 to 4.00	..... to .....
CARNATIONS				
Fancy Class	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	2.50 to 6.00
General Class	3.00 to 4.00	2.00 to 2.50	3.00 to 4.00	1.50 to 2.00
Lower Grades	1.00 to 2.00	1.00 to 1.50	1.50 to 2.50	.75 to 1.00
VIOLETS				
Special	1.00 to	..... to .75	1.00 to 1.25	1.00 to 1.50
General	..... to .50	..... to .60	.50 to .75	.30 to .75
Single	.50 to .75	.60 to .75	.50 to .75	..... to .....
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	12.00 to 15.00	12.00 to 15.00	..... to 15.00	..... to .....
Lily of the Valley	4.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	1.00 to 3.00
Paper White Narcissus	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	..... to 3.00
Trumpet Narcissus	..... to	..... to	..... to	4.00 to 6.00
Tulips	..... to	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00
Callas	10.00 to 15.00	6.00 to 10.00	8.00 to 10.00	15.00 to 20.00
MISCELLANEOUS				
Mignonette	..... to	3.00 to 4.00	3.00 to 6.00	2.00 to 5.00
Sweet Peas	1.00 to 1.50	1.00 to 1.50	.50 to 1.00	.75 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.75 to 1.00	1.00 to 1.50
" Croweanum	..... to	..... to	..... to 1.50	..... to .....
" Farleyense	..... to	..... to	8.00 to 12.00	..... to .....
Smilax	10.00 to 15.00	15.00 to 25.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	40.00 to 60.00	25.00 to 50.00
" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00
" Sprengeri "	..... to 25.00	25.00 to 50.00	25.00 to 50.00	..... to .....
Freesia	..... to	..... to	..... to	3.00 to 5.00
Lilac, per bunch	..... to	..... to	..... to	.75 to 1.00

Obituary

C. A. Keyes died at his home on Highland Street Worcester, Mass., on January 27th. He was the oldest florist in Worcester, having been engaged in the business for the past fifty years. He came to Worcester from Northboro, his birthplace, when sixteen years old, and ten years later started in business



CHARLES A. KEYES

on Highland Avenue, where he continued until his death. Mr. Keyes was well liked and held in highest esteem by the florists of Worcester and the wholesale markets of Boston, where he had been a familiar visitor for many years. His age was 75 years.

Mr. E. G. T. Lueder of Sauk City, who has just died, was one of Wisconsin's remarkable citizens. He was a botanist, and came to Sauk Prairie in July, 1841, with letters of introduction from Asa Gray, who afterwards became world-renowned. In 1843 he joined Fremont's company to go to Oregon, and at the Grand Cascades of the Columbia River all his specimens and his baggage were lost. John C. Fremont, who was in the party, mentions the botanist and his works, and was so greatly impressed with him that he named a body of water Lueder's Bay in his honor. The loss of his specimens was so discouraging to Mr. Lueder that he left at once for his home in Hamburg. He later returned to America, and resided in St. Louis until 1851, when he came to Sauk Prairie. In his collection, to which he devoted his life, are some of the finest and rarest botanical specimens in the world. He was ninety years old. — *Boston Transcript.*

D. Newsham died at the Touro Infirmary, New Orleans, on January 15, from the effects of an operation. He was thirty-five years of age, English by birth, a gardener of high attainments and admirable qualities. He was secretary of the New Orleans Horticultural Society until the past summer, when he took charge of the Louisiana exhibit at the World's Fair. He was a member of the S. A. F.

Patrick Sullivan, well-known locally as a landscape gardener, died at his home in Biddeford, Me., on January 20th.

A. W. Higgins of Rutland, Vt., died January 16.

BUSINESS CHANGES

The Giles County Nursery Co., Lynnville, Tenn., has bought fifty-five acres of land in Pulaski and may in the future transfer their headquarters to the new location.

Julius Baer of Cincinnati, is now making preparations to move into his new store on 4th St., a few doors east of his present location. He will have the largest and finest show window in the West.

Peter Weiland, Cincinnati, O., has moved his wholesale house from the second floor at 128 E. 3d St., to the first floor of same number. William Gardener, his store manager, has their business facilities improved both in the way of handling stock and otherwise conducting business.

LOUISVILLE MARKET REPORT

Business conditions the past week turned out to be a little slow, with no big orders on file. McKinley Day was a failure, so far as the sale of carnations was concerned. Carnations are very short in quantity, however the quality is very encouraging. The regular demand has been very good. Roses are fair in quality; demand and supply satisfactory. Violets are coming in in larger quantities, quality and demand very good. Lilies of the valley, ditto. Dutch hyacinths, jonquils, tulips, etc., are soon to be seen in good quantities.

The Greylock Park Commissioners have made preparations to take by eminent domain 1,361 acres of land in Adams and New Ashford, Mass. This addition will make the Greylock reservation comprise 5,460 acres in the aggregate.

G. A. Parker, superintendent of Keney Park, Hartford, Conn., has gone on a three weeks' trip to New Orleans, Dallas, Shreveport, Birmingham, Louisville, and other southern points of interest.

A Heating Question

EDITOR HORTICULTURE.

Dear Sir: — What size horizontal tubular boiler should I use to heat four greenhouses as follows: One house, lean-to, 6 × 50; one house, ¾ span, 17 × 50; both houses for palms, ferns, flowering and bedding plants; two houses, 16 × 100, for carnations? The temperature outside very seldom falls to zero in this section.

A reply through HORTICULTURE will greatly oblige

Yours truly,

——— C. A. M.

C. A. M. — Replying to your inquiry regarding boilers, we understand you have the following greenhouses, which you desire to heat with steam: one lean-to house, 6 × 50, one ¾ span house, 17 × 50 — these to be used for palms, ferns, flowering, and bedding plants; also two carnation houses, 16 × 100. We have assumed the first two named houses contain approximately 1,700 sq. ft. of glass, and you desire an average temperature in the two houses at night during zero weather of about 70°. We assume the two carnation houses contain approximately 5,000 sq. ft. of glass, and that you desire a temperature of from 50–55° in zero weather. If the above conditions are correct, you would require a horizontal tubular boiler of about 20 nominal horse power, with a grate surface of about 9 sq. ft. If you desire to heat with hot water, you would require a boiler capable of taking care of about 2,700 sq. ft. of radiating surface. In each of the above calculations there is an allowance of surplus boiler power, and the mains leading to the several houses have been taken into consideration. No hard and fast rules can be employed for determining the exact heating capacity of boilers, or for ascertaining the sizes best adapted for different work. There are so many different makes of boilers that it is almost impossible to give you the dimensions. This you could ascertain by writing to the manufacturers. *

Quite a party of St. Louis florists attended the carnation meeting at Chicago. Edwardsville was represented by Fred Ammann and Belleville by E. W. Guy, Pleasant Hill by George M. Kellogg, St. Louis by F. H. Meinhardt, Otto Koenig, Fred C. Weber, Frank Fillmore, and Theo. Miller; Webster's Grove by John Connon and St. Louis Co. by John Steidle and A. Jablonsky. Ralph M. Ward of New York was also with the party. They traveled in a special sleeper *via* Wabash Railroad, reaching Chicago Wednesday morning. Some of them took opportunity to visit other points of interest in Indiana and Ohio before coming home.

DARDS

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention ∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴

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The Best New Plant of the Year!

Nephrolepis Piersoni Elegantissima

PRICES:—2¼-inch pots, $9.00 per doz; 50 plants at 60c. each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each LARGE PLANTS READY FOR IMMEDIATE USE—5-inch pots $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

F. R. PIERSON CO.

Tarrytown-on-Hudson NEW YORK

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CINCINNATI MARKET REPORT

For week ending January 28

Business was very good, but owing to the cold, dark days and the shortage of roses, compelled the store-keepers to hustle for stock enough to fill orders. Bulbous stock is now coming in in good quantities and has sold readily. Green goods, especially smilax, has sold on sight. Beauties have been very scarce and the prospects are that they will continue so for a few weeks. Violets are coming in in good quantities, but are not selling as readily as they should. Colored carnations were in great demand for McKinley day, and kept wholesalers hustling to obtain enough to fill orders. White ones did not move as rapidly. The eastern fern that has been coming into this market has been of a very poor quality, and has been a great loss to the commission men in trade and financially.

NEW YORK MARKET REPORT

General business may be characterized as good without being brisk. American Beauty roses have shortened up very decidedly in crop, hence an advance in value of the higher grades, and last week's blizzard, severest of the season, made still further curtailment of the product of this as well as several other specialties. On teas the demand has eased up somewhat, and quoted prices are frequently cut to clinch a sale. Liberty is particularly strong. Carnations are doing poorly, and the supply exceeds the call; many low sales are made and prices are generally unsteady. Violets are plentiful and concessions to buyers are necessary when it comes to moving the surplus, although it is not out of the way to say that the demand is fair, everything considered. Bulbous stock of all kinds, with the exception of lilies, is on the increase. Lilies are not over-abundant and are moving better. Prices on everything else in the bulbous line are low, but the stock is fairly well cleaned up. There is no apparent shortness in smilax so far. Asparagus plumosus is all taken and all the adiantums are in good demand with supply short.

ROOTED CARNATION CUTTINGS

WHITE		
May Naylor	$2.50	$20.00
Queen	2.50	20.00
Queen Louise	2.00	15.00
Gov. Wolcott	2.00	15.00
Boston Market	2.00	15.00
PINK		
Enchantress	3.50	30.00
Lawson	2.00	15.00
Fair Maid	2.00	15.00
Ethel Ward	4.00	
Nelson Fisher	6.00	

VARIEGATED		
Mrs. Patten	$6.00	
Prosperity	2.50	$20.00
Judge Hinsdale	4.00	
CRIMSON		
Harlowarden	2.50	20.00
Octoroon	4.00	
Harry Fenn	2.50	20.00
SCARLET		
Flamingo	6.00	
Gov. Bliss	2.50	20.00
Crane	2.00	15.00

POT GROWN CARNATIONS 2 in. Stock	Lawson, Queen Louise, Prosperity	$4.00	$30.00
	Harlowarden	5.00	40.00
	Enchantress	6.00	50.00

GRAFTED ROSES ON STRONG ENGLISH MANETTI STOCK

Bridesmaid, Bride, Ivory, Golden Gate, Chatenay, $120.00 per 1000
Uncle John, La Detroit, Gen. MacArthur, $18.00 per 100

Asparagus Plumosus Nanus Seed, Greenhouse Grown, $5 per 1000

Samuel S. Pennock, The WHOLESALE FLORIST 1612-14-16-18 Ludlow St. OF PHILADELPHIA

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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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ANGLE LAMP.

Globe Gas Light Co., 77–79 Union St., Boston.
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ARECA SEEDS.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida,
31 Barclay St., New York.
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BEGONIA REX.

Nathan Smith & Son, Adrian, Mich

BULBS AND TUBERS.

R. M. Ward & Co., New York.
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Arthur T. Boddington, 342 W. 14 St., New York.
Tuberoses, Cannas, etc.
For page see List of Advertisers.

Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston
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J. M. Thorburn & Co.,
36 Cortlandt St., New York
For page see List of Advertisers

BULB FLOWERS.

W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all Bulb Flowers at Market Rates, all season through.

CANNAS.

Nathan Smith & Son, Adrian, Mich.

CARNATIONS.

Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
For page see List of Advertisers.

Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers

A. M. Herr, Lancaster, Pa.
For page see List of Advertisers.

Red Lawson, $10 per 100; $75 per 1000. W. J. Palmer & Son, Lancaster, N. Y.
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Sidney Littlefield,
N. Abington, Mass.
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J. D. Thompson Carnation Co.,
Joliet, Ill.
Best introduction of the season.

S. J. Reuter,
Westerly, R. I.
For page see List of Advertisers.

S. S. Pennock,
Rooted Cuttings and Pot-Grown Stock.
Philadelphia, Pa.
For page see List of Advertisers

Robert Craig, Lieut. Peary, Ethel Ward, The President, White Lawson, and all standard varieties. Rooted Cuttings.
Cottage Gardens Co., Inc,
Queens, N. Y.

Patten & Co.,
Tewksbury, Mass.
Rooted Cuttings of all choice varieties.
For page see List of Advertisers.

Nathan Smith & Son,
Adrian, Mich.
Chicago White, Fred Burki, Fiancee, Phyllis, Cardinal, Red Lawson, and Richmond Gem.
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Chicago Carnation Co.,
Joliet, Ill.
Prize Winning Novelties.
For page see List of Advertisers.

J. H. A. Hutchison, Oxford, Pa.
For page see List of Advertisers

C. G. Velie & Son, Marlborough, N.Y.
Rooted Cuttings. New, Clean Stock.
For page see List of Advertisers

H. A. Stevens Co., Dedham, Mass.
Rooted Carnations from Flowering Stems only.
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WHITE CARNATION. THE BRIDE.

John N. May, Summit, N.J.
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THE QUEEN

Henry Eichholz, Waynesboro, Pa.

CHRISTMAS FUCHSIA.

George C. Watson,
Juniper & Locust Sts., Philadelphia
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CHRYSANTHEMUMS.

Nathan Smith & Son, Adrian, Mich.
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Robert C. Pye, Nyack, N. Y.
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DAISY, QUEEN ALEXANDRA

H. A. Dreer, Philadelphia, Pa.
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FERNS.

A. Leuthy & Co., Roslindale, Mass.
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FLORISTS' SUPPLIES.

H. M. Robinson & Co., Boston.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
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Koral Mfg. Co., 26 Hawley St., Boston.
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G. A. Sutherland Co., 34 Hawley St., Boston.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Dards, 44th St. & Madison Ave., New York.
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Thos. Young, Jr., 43 W. 28th St., New York.
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FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
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Wm. J. Boas & Co., Philadelphia, Pa.
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GALAX LEAVES.

E. H. Hitchcock,
Glenwood, Mich.

Leo Niessen, 1217 Arch St., Philadelphia, Pa.
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E. A. Beaven,
Evergreen, Ala.
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GERANIUMS.

A. M. Herr, Lancaster, Pa.
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Nathan Smith & Son, Adrian, Mich.

H. M. Totman,
Randolph, Vt.
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GLASS.

Standard Plate Glass Co., 26–30 Sudbury St., Boston.
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Sharp, Partridge & Co., 22d and Union Place, Chicago.
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GLADIOLI.

Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.
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GLAZING POINT.

H. A. Dreer,
Philadelphia, Pa.
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GRAPE VINES, HOTHOUSE.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
Strong Planting Canes, all best sorts, each $3.50.
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GREEN GOODS.

E. H. Hitchcock,
Glenwood, Mich.

E. A. Beaven,
Evergreen, Ala.
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GREENHOUSE BUILDERS AND MATERIAL.

Lord & Burnham Co., Irvington-on-Hndson, N. Y.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
See outside cover page.

Hitchings & Co., 233 Mercer St., New York, N. Y.
See outside cover page.

John C. Moninger Co.,
111–125 Blackhawk St., Chicago.
Hotbed sash and construction lumber.
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Adam Schillo Lumber Co.,
Weed & Hawthorne Aves., Chicago
Hemlock, pine and pecky cypress. Cedar posts
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., Boston.
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HARDY HERBACEOUS PLANTS.

M. H. Walsh, Woods Hole, Mass.
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HELP.

Thos. H Bambrick, 34 S. 7th St., Philadelphia, Pa.
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HEATING APPARATUS.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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Pierson Sefton Co., West Side Ave., Jersey City, N. J.
See outside cover page.

Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

Kroeschell Bros. Co., 47 Erie St., Chicago.
Manufacturers of the Kroeschell Boiler, the Great Fuel Saver.
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HOE, SPRING TOOTH.

E. H. Hitchcock,
Glenwood, Mich.
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IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York
Plants tender or hardy.
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R. M. Ward & Co., New York. Plants and Bulbs
For page see List of Advertisers.

INSECTICIDES

E. H. Hunt, 76–78 Wabash Ave., Chicago
To-Bak-Ine, the Great Bug Killer.

JAPANESE PLANTS.

Hinode Florist Co., 5th St., Woodside, N. Y
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LILAC FLOWERS.

S. S. Pennock
The Wholesale Florist of Philadelphia.
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LILIES.

Plants and Cut Blooms. Hinode Florist Co., 5th St
Woodside, N. Y.
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LILY BULBS.

J. M. Thorburn & Co., New York.
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LILY OF THE VALLEY PIPS.

J. M Thorburn & Co., New York. Selected Berlin, per hundred. $2; per case. $32.50
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
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Johnson & Stokes, 217–219 Market St., Philadelphia.
High Grade Pips the year round.

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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NICOTIANA SANDERÆ.

H. A Dreer, Philadelphia,
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J. M. Thornburn & Co., New York.
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Vaughan's Seed Store,
Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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ORCHID FLOWERS.

Chas. W. McKellar, Chicago.

S. S. Pennock,
The Wholesale Florist of Philadelphia
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Julius Roehrs,
Rutherford, N. J.

PATENTS.

E. G Siggers, Washington, D. C.
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PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.

POTATO, NOROTON BEAUTY.

J. M. Thorburn & Co., New York.
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RETAIL FLORISTS.

Alex. McConnell, New York.
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Dards, New York.
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Thomas Young, Jr., New York.
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ROSES.

Kaiserin Roses. Robert C. Pye, Nyack, N. Y.
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W. H. Salter, Rochester, N. Y.
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M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
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John Breitmeyer's Sons, Detroit, Mich.
Rose La Detroit. Booking orders for early delivery. Send for prices.

New Rose Wellesley. — John N. May,
Summit, N. J.
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ROSES GRAFTED.

Montrose Greenhouses,
Montrose, Mass.
All the best varieties.
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S. S. Pennock,
Philadelphia, Pa.
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SCOTT FERN.

John Scott,
Keap St. Greenhouses,
Brooklyn, N. Y.
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SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
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Thos. J. Grey & Co., 32 S. Market St., Boston.
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George C. Watson, Juniper & Locust Sts., Philadelphia, Pa. Forcing Tomatoes. Forcing Lettuces. Forcing Radishes.

Arthur T Boddington, 342 W. 14th St., New York
Gloxinias, Tuberous Begonias, etc.
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S. S Pennock, Philadelphia, Pa.
Asparagus Plumosus nanus
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H. A. Dreer, Philadelphia.
Double Fringed Petunias.
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Joseph Breck & Sons,
51 & 52 N. Market St., Boston
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Wm. Henry Maule
Philadelphia.

W. Atlee Burpee & Co.,
Philadelphia.
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Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston.
Cyclamen and White Globe Stock.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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E. H. Hunt,
76 & 78 Wabash Ave., Chicago.
Carlson Improved Asters.
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SHEEP MANURE.

Robert Simpson, Clifton, N. J.
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STEAM TRAP.

E. Hippard,
Youngstown, O.

SOUTHERN SMILAX.

E. A. Beaven,
Evergreen, Ala.
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SULPHUR BLOWER.

McMorran & Co., Chicago.
Peerless Sulphur Blower.
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VENTILATING APPARATUS.

Hitchings & Co., 233 Mercer St., New York.
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Pierson-Sefton Co., West Side Av., Jersey City, N. J.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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WAXED PAPER.

H. P. Smith Paper Co.,
1334 1st Nat. Bank Bldg., Chicago.
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WHOLESALE FLORISTS.

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E. H. Hunt, 76–78 Wabash Ave., Chicago.
J. A. Budlong, Chicago.
Chas. W. McKellar, Chicago.
Wieland & Risch, Chicago.
Chas. Millang, New York.
Welch Bros., Boston.
Frank Millang, Flower Growers' Market, 55–57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
John I. Raynor, New York.
W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
Leo Niessen Co., 1217 Arch St., Philadelphia.
J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S Pennock, The Wholesale Florist of Philadelphia.
Fred Ehret, 1403 Fairmount Ave., Philadelphia.
Established 1890.
Pittsburg Florist Ex., Pittsburg, Pa.

WIRE.

H F. Littlefield, Worcester, Mass.
For page see List of Advertisers

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

Surplus lists containing offers of beans may be looked for about March.

R. McNeff is representing William Elliott & Sons, New York, on the road. H. B. Odell is not now in the employ of this firm.

The short crop of beans harvested by the seed growers will prove an illustration of the wind being tempered to the shorn lamb.

Harvey Seed Co. of Buffalo, N. Y., which firm bought the business of Frank H. Battles at assignee's sale, have decided to close up the business at Rochester.

Retail seedsmen report that their salesmen are meeting with a very light demand from market gardeners for beans. This sustains the statements made in these columns some weeks ago that the market gardeners had saved most of their own beans.

Catalogues Received

W. B. Longstreth, Gratiot, O. Seed Annual and "Bargain Catalog."

George W. P. Jerrard Co., Caribou, Me. Seed Potatoes and Early Seeds.

Green's Nursery Co., Rochester, N. Y. Catalogue of Fruit and Ornamental Trees and Vines.

Julius Roehrs, Exotic Nurseries, Rutherford, N. J. Price List of Bay trees, standard and pyramidal.

Haskell Ave. Floral Co., Dallas, Texas. Roses for the southern planter. Lists a general collection of plants.

Hermann Thiemann, Owosso, Mich. A selected list of Dahlias. A very comprehensive list, carefully selected.

Conrad Appel, Darmstadt, Germany. Wholesale Price List of Grass, Clover, and Agricultural Seeds and Lawn Mixtures.

Henry Saxton Adams, Jamaica Plain, Mass. "A Little Green Book for the Garden." Quite convenient and interesting.

Burpee's Fordhook Folder. "Printed for Broadcast Distribution to Make New Friends for Burpee's Seeds." It undoubtedly fulfills its mission.

Eastern Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass. Wholesale Trade List. Contains offers of all the most desirable ornamental trees and shrubs for hardy plantations.

W. W. Rawson & Co., Boston. Seed Catalogue for 1905. Resplendent with hollyhocks in embossed colors, on front cover, and tempting vegetable specialties on the back. Up-to-date inside and out.

John N. May, Summit, N. J. Wholesale Trade List of Roses, Carnations, and Chrysanthemums for 1905. Contains descriptions and offers of the leading novelties and a critical selection of the best of the older introductions.

Elizabeth Duse, daughter and only child of Mme. Eleanora Duse, the Italian tragedienne, has entered an English college devoted to the study of farming and horticulture. Signorina Duse is only seventeen years old. To her mother's great joy she has shown no desire for stage life; her tastes are, in fact, strongly anti-theater, and she has never even seen Duse act. In appearance, however, the two are wonderfully alike. — *Boston Transcript.*

ORDER IT NOW

The Xmas Fuchsia

Only a limited stock for sale this season

See our last week's adv. for prices, etc.

Watson's Seed Store
Juniper and Locust Sts. Philadelphia

CARLSON IMPROVED
ASTER SEED
Pure Strain Recognized as the leading Aster for Cut Stock. No disease. No "yellows"

EARLY WHITE	Trade pkt.,	25c.;	¼ ounce,	50c.;	ounce,	$1.50
LATE WHITE	"	25c.	"	50c.	"	1.50
SHELL PINK	"	25c.	"	50c.	"	1.50
LAVENDER	"	25c.	"	50c.	"	1.50

Order early to insure getting all colors
E. H. Hunt, 76-78 Wabash Ave., Chicago

GLADIOLI
BEST FORCING VARIETIES
also Florist price list free on application at
Joseph Breck & Sons, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 No. Market St. - Boston, Mass.

BURPEE'S SEEDS GROW AND WIN MORE PRIZES
than the products of any other brand! Besides several GOLD MEDALS, they won a GRAND PRIZE for vegetables at the ST. LOUIS EXPOSITION. If you intend to TRY BURPEE'S SEEDS, we will mail free our COMPLETE CATALOGUE OF 178 PAGES, with beautiful colored plates and illustrations from photographs taken at our famous FORDHOOK FARMS, the largest Trial Grounds in America. If you garden for profit or are a florist, you should also have BURPEE'S "BLUE LIST" or WHOLESALE PRICE-LIST for Market Gardeners and florists. WRITE TO-DAY!
W. ATLEE BURPEE & CO., SEED GROWERS, PHILADELPHIA

Thorburn's Bulbs

Areca Lutescens Seeds

$3.00 per 1000

Lily of the Valley, pips and clumps
Lilium Auratum and Speciosum, all sorts

The Great New Potato
NOROTON BEAUTY

All who issue catalogues should not fail to include it. Descriptive circular on application.

J. M. THORBURN & CO.
36 Cortlandt St. New York

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

BULBS

HORSESHOE BRAND

and PLANTS

Ralph M. Ward & Co.
17 Battery Pl. New York

Quality Seed Bulb Plant S

SEND FOR CATALOGUE

Arthur T. Boddington
342 West 14th Street *NEW YORK*

Dreer's Superb Double Petunias



For nearly half a century we have been making a specialty of **DOUBLE PETUNIAS**, and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, thus improving the strain every season, and this year's collection is the brightest and most pleasing one we have yet sent out. We offer 15 distinct varieties.

2½-inch pots, 60c. per doz.; $4.00 per 100; the set of 15 for 75c.

3-inch pots, 75c. per doz.; $6.00 per 100; the set of 15 for $1.00.

SEED OF OUR SUPERB STRAIN OF FRINGED PETUNIAS. Double, 75c. per 500 seeds: $1.50 per 1000 seeds. **Single**, 50c. per trade packet.

DREER'S QUARTERLY WHOLESALE PRICE LIST of Seeds, Plants, Bulbs, etc. is mailed to all Florists. If you do not have it at hand, please advise us and a copy will be mailed at once.

HENRY A. DREER, Philadelphia, Pa.

In writing to advertisers, kindly mention HORTICULTURE

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts
Leading Machines
32 So. MARKET ST., BOSTON

W. W. RAWSON & CO. Arlington Tested SEEDS BOSTON MASS

Sow Now

Lobelia Crystal Palace Compacta
1-8 oz., 25c.; oz., $1.50

Lobelia Erinus Gracilis
1-8 oz., 10c.; oz., 40c.

W. W. RAWSON & CO.
12 and 13 Faneuil Hall Square, Boston, Mass.

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.

Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y.

SPECIAL OFFER

A FEW THOUSAND FIRST SIZE

Double Von Sions
At $9.00 per thousand while they last.

Best English Cyclamen Seeds
In named varieties, 50c. pkt. $1.25 per 100 seeds.

Boston White Globe Stock
Best for inside growing. Pkt., 10c.; large pkt., 50c.; ounce, $5.00.

SCHLEGEL & FOTTLER CO.
26 & 27 So. Market St., Boston, Mass.

Lilies Plants and Cut Blooms

Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS

Hinode Florist Co.

5th Street, Woodside, N. Y.

In Writing Advertisers, Kindly Mention HORTICULTURE

Outdoor Art and Craft

The Park Department of the city of Haverhill, Mass., asks the Board of Aldermen to appropriate $1,000 for the purpose of collecting and destroying brown-tail moth nests.

The Orange Judd Farmer in discussing the latest horticultural freak, the seedless apple, cautions intending growers against paying fancy prices for seedless apple stock, claiming that they are not commercially warranted. While the apples may be seedless, they contain the usual core, or carpels. The blossom end of the apple, instead of being closed, is more or less open, and extends a considerable distance towards the center of the fruit. The seedless apple seems to be a freak of no especial merit. The coreless apple is what is needed.

PENNSYLVANIA NURSERIES REPORT

According to the report of the State Inspector of Pennsylvania, the ravages of the San Jose scale has decreased in the southeastern part of the state. Eighty per cent of the nurseries were infected in 1902, sixty per cent in 1903, but only forty per cent in 1904. Vigorous work has been the watchword — spraying and burning and all the important nurseries now have their certificates for 1905. Montgomery County, Philadelphia County, Lancaster County, and Chester County, all had clean slates at last inspection, and, with the work since done, the re-inspection will doubtless certificate most of the others.

TREE-PLANTING BY A BIG CORPORATION

The American people are difficult to rouse on the subject of replanting their denuded timber lands. From the time of the early settlers it has constantly been the problem how to destroy rather than how to replenish, and this inherited attitude will stand in the way of much being done until things are much worse than they are now.

It is gratifying, therefore, to learn that a big corporation like the Pennsylvania Railroad has taken time by the forelock and is now planting for the year 1935, so as to have plenty of crossties then, as they figure there will be a famine by that time. The task of planting 280,000 young trees was finished recently. 200,000 more will be planted in the spring and 600,000 in the fall. It is figured that it will require 39,000,000 trees to supply the road's demand.

GREENHOUSES BUILDING AND PROJECTED

PORTCHESTER, N. Y. — Emil Leonhard, retail plant house.

SECANE, PA. — E. R. Smith, additions.

BOTANICAL GARDEN, BRONX PARK, N. Y. — Plant house 26½ × 280.

GERMANTOWN, PA. — Mergenthaler Bros., additions.

CYNWYD, PA. — Arburger & Cascaden, additions.

SPRINGFIELD, MASS. — A. J. Buckleton, propagating house. Wm. Schlatter & Son, carnation house.

LYNBROOK, N. Y. — Charles Weber, two houses.

BETTENDORF, IA. — Henry Kahle, range of vegetable forcing houses.

Peter Reinberg contemplates the erection of five houses, each 30 × 500 at his farm north of Chicago, on the lint of the drainage canal as at first laid out

EDGEBROOK, ILL. — George Wittbold Co., two houses,—each 28 × 300—for carnations and roses, a new departure for this firm.

BROOKLYN, N. Y.— John Scott, three plant houses.

MILWAUKEE, WIS. — Theodore Van Beck, two houses, 30 × 100.

J. C. Moninger Co. has the contracts for the following: —

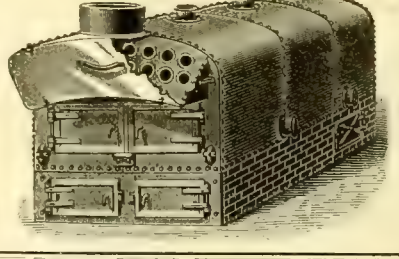
ARDMORE, PA. — Rolan Van Wallburg, Conservatory and plant house. DAYTON, O. — Miami Floral Co., three houses, 34 × 155. ARLINGTON HEIGHTS, ILL. — Schraia Bros., one house, 30 × 150. COLORADO SPRINGS, COL.—Henry Evans, cypress for several houses. Also NORTHPORT, L. I., N. Y. — James Cockroft, three houses, 33 × 157. Thus the far East patronizes Chicago firms.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

47 Erie St., Chicago



WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE

One Upright Steam Boiler, 60 inches high x 32 inches diameter, capacity 1000 Sq.ft radiation, complete with all trimmings and castings at a bargain. We also carry a complete line of pipe and fittings and would be pleased to quote you on above.
RITCHIE HEATING CO.
483 Lincoln Avenue, Chicago, Ill.
Two 'Phones, North 1394, Dearborn 6774.

SITUATION WANTED as gardener or assistant on private place; English, age 25, best of reference.
SAMUEL GRIGG, New Hamburg, N. Y.

SITUATION WANTED — By married man as working foreman, A 1, grower of cut flowers and bedding stock. High grade carnations a specialty. Good references. Or would lease greenhouses of 10,000 to 15,000 feet, with privilege of buying same.
Address "I." Care HORTICULTURE,
11 Hamilton Place, Boston.

WANTED — Good position in high-class Flower Store in large Western City for a No. 1 Store Man and Decorator. Address "W. L."
Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — By first-class Carnation Grower, willing and able to fill position of responsibility. Address "W. J."
Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — By young man, good experience with all kinds of plants, flowers and hothouse fruits. Good references, private or commercial. Address "A," Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — As first assistant on first-class, private place where orchids, palms and roses are grown. Single, 28. Experience practical and theoretical in general stock. Address, "E. L. R."
Care HORTICULTURE,
11 Hamilton Place, Boston.

WANTED A PARTNER — Greenhouses near center of large city. Trade entirely retail. Well established, growing and paying. Owner desires to devote part of his time to other interests. $2,000 required. Enquire further,
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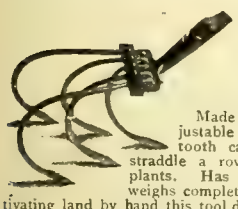
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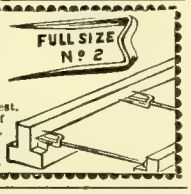
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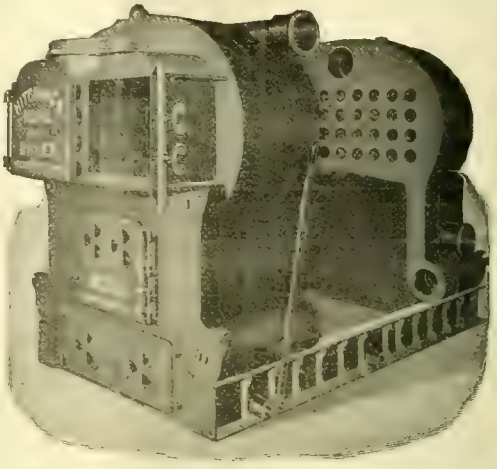
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HORTICULTURE

Vol. I FEBRUARY 11, 1905 No. 11



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VOL. I | FEBRUARY 11, 1905 | NO. 11

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The Nephrodiums constitute another section of Aspidium; they are also called Lastrea. Some of the American botanists insist on the name Dryopteris. In that section the spore cases are round, some small, some very apparent and covered with a kidney-shaped indusium; in some cases this indusium is small enough to be hardly noticed; they are set in one, sometimes in two rows on each side, some near the mid rib, some near the edge of the pinnules.

Nephrodiums do not need any particular treatment; good fibrous loam and a little leaf mould for the big-growing species; more leaf mould and a little sand for the small growing ones, and some pulverized dry cow manure added for the big ones will help their growing. They are all propagated by spores. The small ones can be divided when they grow side shoots.

This section is composed of very numerous species, some like N. amplum from West Indies, N. dissectum from New Caledonia.

N. villosum from West Indies, and others, grow to a great size with fronds from three to five feet, but seldom seen in cultivation.

I will enumerate a few of the best for their decorative qualities.

Neph. molle; from West Indies and a little all over the world, can be called a weed in old greenhouses where it grows all over the walls and pots, but when well cultivated is a good looking plant, rich in foliage. There are a few good crested forms from it that are more looked after.

Neph. patens, from West Indies and Central America, is a nice decorative fern; its long-stalked fronds of a light-green color are arching and numerous; it is common, but makes a good show plant.

Neph. lepidum looks very much like a form of patens; the fronds, one to two feet long and oval in shape, are long, tapering to the end, the pinnæ are deeply cut, and the pinnules narrow and apart. It is a very graceful fern.

Neph. conterminum, from Jamaica, is anohter patens-looking fern, about the same size, but of more erect habit; the fronds are tapering on both sides and clothed with pinnæ from the base, the first ones very short and the middle ones long. It makes a nice round-crowned plant.

Neph. ceraceum, from Jamaica, is a bushy plant of a light-green color, not of very great dimensions. The stalk is as long as the leafy part of the frond, which is triangular in form. The pinnæ are deeply cut and the divisions close together; all the extremities are pointed. It is a compact, showy plant.

Neph. amplum, from West Indies, is one of those big growing species, the triangular leafy frond about three feet long and large, are arching, much dentated, and light-green in color; the long stalks are clothed with narrow twisted scales at the base; it is more a greenhouse fern.

All the above are of soft texture; the following pro-

duce heavy leathery fronds and we will call them Lastrea.

Lastrea hastæfolia, sometimes called Polypodium hastæfolium, is a native from Jamaica. It is a beautiful and elegant little plant, the fronds numerous and not over one foot long, are erect, arching at the top, and simply pinnate. The pinnæ, which are closely set, are eared at the base and make like a row of little fronds overlapping one another along the center of the frond.

Last. deltoidea, from Jamaica, is a little over one foot high, from the base to the middle of the frond the pinnæ are reduced to little ear-like rudiments; the other half is long spear-shaped, the pinnæ bluntly cut nearly to the mid rib and of a dark glossy green color.

Last. decomposita, from New Zealand and Australia, is a fern with fronds triangular in form, about two feet long and half as broad, with a long stalk; a good hardy plant.

Last. d. glabella, from New Zealand, is a form of it. The frond finely cut and of a nice green color, could be mistaken for a Trichomanes radicans. It is a little over a foot high, very bushy and handsome when well cultivated, but turns brown and sickly when watered over head.

Last. chrysoloba, from Brazil, is a small growing fern which is used some and well appreciated, with its dark green fronds, and golden downy surface underneath.

Last. denticulata, from West Indies, looks like some kinds of davalleas. The pinnules are small and spaced; spoon-shaped and dentated. The frond is triangular, with a long stalk, hairy at the base; grows over two feet in height, and is a distinct looking fern which makes a good effect.

Last. opaca, Last. carusca, and Last. varia, all three from Japan, are closely related to L. erythrosora, and prolifica which have been described in a previous article. They are all very hardy, of very strong substance, and very attractive in the bronze color of the young fronds.

Lastrea viridissima, from Japan, is a plant of recent introduction, very little known I think, and deserves a first place among decorative ferns. We described L. Standishii before. Viridissima has much likeness to it; the fronds are not so big, but more numerous and grow in a round crown of a beautiful shape with the same wavy appearance and of a nice light-green color. The spore cases are very apparent and of a dark-blue color. A house full of L. viridissima would be as easy to sell as Boston ferns.

Amongst the hardy Nephrodiums, Lastreas and their varied forms are some fine varieties which would make good pot plants. We shall speak about them later, when we look over the hardy ferns in general.

Amidu Khan

Hippeastrum aulicum (Syn. Amaryllis aulica)

This is a brilliant, two-flowered, winter-flowering, greenhouse hippeastrum from Brazil, that materially assists in brightening the greenhouse or conservatory during the dull winter months if grown in considerable quantities. It is a robust and easy subject to handle, producing large bulbs with good ordinary care, throwing in turn two flower-scapes from each bulb, the scapes being from 16 inches to 20 inches high, not counting the flowers, according to the size and vigor of the bulbs. The flowers stand semi-erect on the stems and not drooping or horizontally inclined, as in the case of the hybrid hippeastrums. They are of a brilliant scarlet hue, with purple shading towards the base of the petal segments, with a further small green circle at the very base of the flowers. The flowers measure 6 to 7 inches across.

It increases quite freely from offsets, has long, shiny green leaves looking as if varnished, from 2½ to 3¾ inches wide, and from 18 inches to 22 inches in length, the edges of some upturning and incurving, and whether in flower or out of flower, it is attractive on account of its bold, handsome foliage.

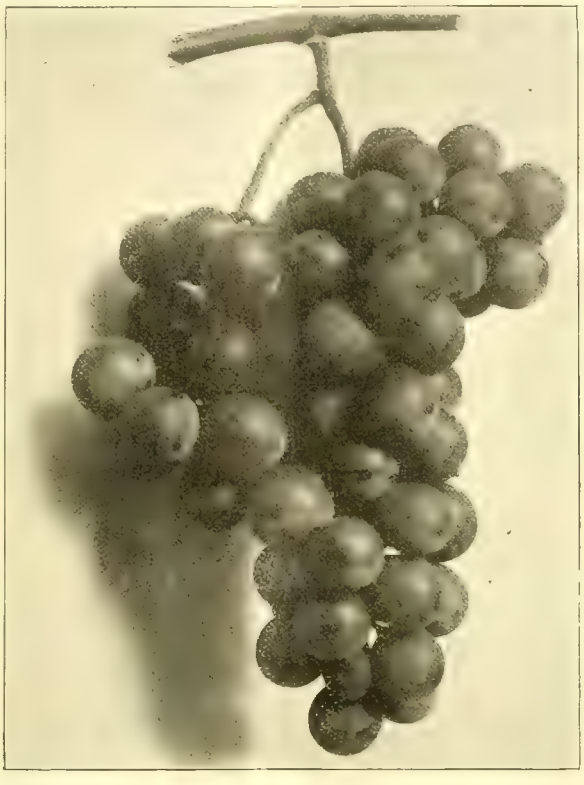
To have it in flower now or earlier, it requires to be potted in fresh material yearly about the first of August or thereabout, much in the same way and time that callas are potted, and like them, stood out of doors for considerable time thereafter; in fact, up until the autumn nights indicate chilliness. Water must be sparingly given while it is thus establishing itself in the newly potted material.

A greenhouse temperature of from 50° to 55° suits it to a T. When thoroughly established it will take kindly to a heartier diet than cold water will furnish. It reluctantly parts with its handsome leaves and I don't blame it; this would indicate that its tendencies are to be evergreen, and therefore it should not, after flowering, be cast in any out-of-the-way corner. On the contrary, it should have a long season of growth, up to the latter part of April, I should say, thereafter gradually withholding water until the leaves are practically compelled to give up their functions. Under such treatment I have found this plant to do admirably. There are several varieties of the type, one being called Aulica platypetela. The subject of this note was purchased by me a good many years ago for the latter variety, from V. H. Hallock, or John Lewis Childs, I forget which. Being in doubt as to the correctness of the name, I consulted the Botanical Register and found to my satisfaction I had the type, platypetela as the specific name denotes being much broader in the petals, and less brilliant in color, according to the plates.

K. Fujiyama

The King Philip Grape

The King Philip is without doubt the most remarkable grape ever originated in this country. It is early, ripening with our earliest grapes. It is hardy and withstood without protection 30° below zero during the winter of 1903–1904. It is a strong and vigorous grower, with large dark-green foliage; with large clusters, and berries resembling Black Hamburg and equalling in quality that grape or any of the grapes that we get from California.



Its origin is as follows: — I had in my grounds, a chance or accidental wild hybrid of V. Labrusca and V. riparia, a staminate grape named Duke. From this grape, I pollenated blossoms of the Black Hamburg. The result of this pollenating of the Black Hamburg was that I obtained eight vines, and all but one were staminate. This excess of staminate vines is not unusual where a staminate vine is used as the male parent. From those seven staminate vines, I selected one that seemed the most promising and named it Duke 2d, and from this vine I pollenated the Black Eagle, a V. vinifera and V. Labrusca (Concord) hybrid, and the King Philip is the result of that cross, making it, according to Galton's law or rule,

½ v. vinifera,
¾ v. labrusca,
¼ v. riparia.

Galton's law is that of the whole heritage of the offspring. The two parents together, on an average, contribute one-half, the four grandparents one-quarter, the eight grandparents one-eighth, and so on. That, I admit, is the accepted rule, but nature does not confirm our record when made according to that rule. The work in her laboratory is not conducted under any such rule, as every experimenter with the grape soon learns and the results of many crosses go far to confirm. The idea is that the gametes or germ cells of the grape are of a compound nature, and each component part of the combination represents one character of one of the parents and not both. Now it is very improbable that the two gametes that united to make the King Philip were such as to make that grape just one-half V. vinifera, three-fourths V. Labrusca, and one-fourth V. riparia, and I doubt if the experiment were tried over again a thousand times, any two gametes having the same characters in the same proportion that those two had, that united to make the King Philip. One of the most remarkable features of that grape is that the fruit most resembles the vinifera (or foreign grape) while the vine most resembles the native species. One other fact in relation to the creation of that grape is, that the crosses were made both ways. The native was crossed on the foreign and the foreign on the native. I know of no other grape that has been produced in that way.

W. B. White

The Outlook for Florists' Choice Seeds

Twenty years ago any young gardener (he had to be young), applying for work at a commercial florist's establishment, would very likely be asked some such question as, "How many geraniums can you pot off in a day?" Everything had to be done in a hurry, and a good workman who wished to do his work thoroughly was counted too slow for this country.

We have had the experience gradually forced upon us, that it pays to take time and do good work. The time has gone by when the retailer will hold up for your inspection a plant with one leg, and what was intended for a bloom on the top of it, and tell you he can buy this for just one-half what you are asking for yours.

The retailer and the public, too, have become educated in plants and know the difference, and have experienced the satisfaction of buying carefully-grown specimens, with the result that the retailer now looks for the best, and is willing to pay a fair price. The demand for well-grown specimens (and that means high-priced ones), especially at the holiday seasons, is growing by leaps and bounds every

year. It makes very little difference about the variety; if it is well grown and a good strain it will sell.

Fifteen years ago half a thousand cyclamen blocked the Boston market. Now nearly every city in the country has them by the ten thousands. The same may be said of Primula sinensis. Good strains of cineraria and calceolaria will, I think, come to be in great demand for the Easter trade; but the strains must be good, and when so should sell as readily as azaleas.

And just here is the point that the American grower needs to consider. The question is often asked, Where can I get good seed, that I can rely upon being a good strain? We have always depended on importing from Europe, but with our plant trade growing at such a rapid rate the demand for seed has been correspondingly great, with the result that reliable seed are becoming harder to get. I am inclined to think that the seed raisers of Europe have not realized to what extent our demand for good seed is growing, and have not been prepared, and so fill orders with inferior seeds.

I think the time has come in the evolution of our business when it will pay to produce our own seed. The American florist has taken time and great pains to hybridize the carnation, with the result that the whole world is applauding his success and is eager to purchase his products. He can be just as successful in hybridizing other plants if he will take the time, and it will pay him just as handsomely.

There is nothing that we can grow too good for the American millionaire. He has made his money, and is looking for pretty things to buy, and is willing to pay for the best. A good, painstaking, up-to-date man could build up quite a trade in this way, not only in producing good strains for his customers, but also for his brother florists and the seedsman, who will be glad of the opportunity to buy at home.

I see no reason why we cannot produce strains as good as and better than the class of seeds we are mporting at present.

Geo. M. Anderson

Begonias as Bedding Plants

For several years past we have used begonias as bedding plants with very satisfactory results, especially so with the Semperflorens varieties. The seed of these are sown during the month of February in pans of well-drained, light soil, which has been made firm and watered before sowing the seed. Of course it is understood that the seeds are sown on the surface. A pane of glass is placed over the pan, which is put in a warm temperature and kept shaded until the young plants appear.

Instead of watering from the top we place the pans in water, allowing the soil to become moist, as by this method there is less chance of the young plant's dampening. Should they show any sign of the above, we sprinkle the soil with dry sand mixed with a little sulphur.

When the plants become crowded in the seed-pan they are pricked off into flats, allowing one inch each way, using soil, leaf-mould, and sand. When the plants touch they are then planted in 2-inch pots. When they have filled these pots with roots they are shifted to 3-inch, using a little stronger soil, placed in a temperature of about 65 degrees, and by the month of June we have strong, healthy plants, in flower. And from the time the beds are planted until frost they are a mass of blooms.

Begonia Erfordii, which is one of the best for the above purpose, being a hybrid, may revert; but by having the plants in flower before planting out, any plant not coming true may be seen. The new Red Erfordii, no doubt, will be a great acquisition to this class.

I know of no plant that will stand heavy rains better than the begonia, for even after the summer showers, when other flowers are wilted and faded, the begonia still looks as bright as before.

David F. Roy

Phalænopsis Schilleriana

(See frontispiece)

This beautiful orchid is one of those that may be classed as the grandest genus among the orchids, and its magnificent flowers, when well grown, outshine all others. The color of these delicate flowers and their construction is most wonderful. Sometime ago I received a letter from W. A. Manda, South Orange, N. J., in which he stated that one was grown in Mr. Schole's collection in Brooklyn, bore two spikes with three hundred and twenty blooms and buds, but that since that time the plant had died. The accompanying photograph represents a specimen grown by the writer at Schenley Park, Pittsburg. It had one hundred and thirty-two flowers. I also grew one the same year with ninety-six flowers. Both these plants had been severely bruised the year previous by a hailstorm, the terminal growths of each being broken off. They were shaken out and repotted carefully in moss, peat and charcoal and given rest for about eight weeks and then started to grow, the baskets being hung by their sides. They were given a temperature of 70° to 80° in the day and about 65° at night. They were syringed a few times after showing spike, with a very weak solution of salt water, and the roots were dipped three or four times in a weak solution of manure water.

The spike on this plant measured 5 feet, 3 inches in length, and 2 feet, 11 inches across, the plant bearing seven leaves, three of them over 17 inches long.

Jas. O. Powell

British Horticulture

The wave of depression passing over Britain has made itself felt in the horticultural trades. The severe weather experienced since the opening of the year has not improved matters. The flower trade at Covent Garden has been hampered by the shortage of supplies from the south of France, where the cold has been exceptionally sharp. The high prices prevailing have had a prohibitive tendency.

American carnations are in great favor on this side, and are usually well represented at the leading shows. When they were first imported there was a prejudice against them on account of their serrated petals, but this objection has been surmounted. The varieties, vigorous growth, and the attractive, scented flowers gained for them many admirers. Their long, stiff stems and well-formed calyx also secured for them greater acceptance. Market growers have recognized their value. At a show of the Royal Horticultural Society, in London, a few weeks ago, a Guernsey nurseryman gained awards of merit for Enchantress, Adonis, and the President. Among the other varieties in vogue are Mrs. T. W. Lawson, first favorite, Queen Louise, Alba, Alpine Glow, Harry Fenn, Sybil, Golden Beauty, America, and Melba. A controversy has been raging as to whether a variety named Fascination, shown by a London nurseryman, is not synonymous with Enchantress. It is not a new experience to find flowers assuming different aliases to suit the purpose of certain traders; but it is a mischievous form of trading which the conscientious members do their best to suppress.

This is the time when British seedsmen are busy attending to the orders for seed potatoes. The big "boom" culminating in tubers fetching three times their weight in gold has had its day, and prices have reached a more normal level. There are over one hundred and fifty new varieties on the market, each claiming to be the best! It is hoped that the new National Potato Society will be able to organize authoritative trials as to the respective merits of these many claimants for supremacy. At the present time, buyers are sorely perplexed in their selections. The British introducers are not having it all their own way, for they have to face competition from the United States. Messrs. Thorburn & Co. of New York, who introduced the Beauty of Hebron, an extremely popular variety in its day on this side, are now bringing before the British public the merits of the new early Noroton Beauty, which is being offered at the reasonable price of 4s. 6d. a pound. Among the other varieties from America receiving attention are Cramond Blossom, Carman, Divide, Crown Jewel, Irish Cobbler, White Rose, White Ohio, Clarke's Pride, and Vermont Gold Coin.

Messrs. W. Wells & Co., Ltd., of Carlswood, Surrey, whose chrysanthemums have gained an American reputation—samples having been successfully shipped on several occasions — are this year offering a number of interesting novelties. Some of these were included in a collection which was awarded a gold medal at the American Chrysanthemum Society's show at Boston on Nov. 3d. This is the only firm outside the United States who have received the highest honors from the society already named. At the Scottish Horticultural Society's show at Edinburgh, Messrs. Wells carried off the prize for the best novelty with Mrs. John E. Dunne. This is a handsome terra-cotta bloom, with a stiff habit and flower stem. Amongst the Japanese, the other new-comers include E. J. Brooks, purple crimson, with plum and white reverse; Mary Ann Pockett, Indian red, with golden buff reverse; Miss May Seddon, pure white; Mrs. D. Willis James, chestnut terra cotta, with old-gold reverse; Mrs. G. Heaume, delicate salmon buff; Mrs. Henry Partridge, crimson, with bronze reverse; Mrs. R. E. Mason, deep Indian red. The singles comprise Dorothy Fortescue, pure white, with broad flat florets; Clara Bishop, deep pink; Ethel Beer, terra cotta; Hilda, terra cotta; Katie Covell, maroon, etc.

Mr. Joseph Cheal of the Lowfield Nursery, Sussex, is a strong believer in travel as an educational factor. Some time ago he toured through America and Canada, making a free use of his note-book. He has recently given several audiences an account of his latest trip to Egypt and Syria, illustrated by lantern views. Another well-known traveler is Mr. Peter Barr, the veteran "Daffodil King." After a brief rest from the exertions of a trip around the world, Mr. Barr set out for an Eastern tour, and is still traveling.

Some interesting facts are revealed in the annual report published in connection with the experimental fruit farm, established on the estate of the Duke of Bedford, at Ridgmont, in Bedfordshire. Manurial tests have been made, which show that the fruit crops were increased by moderate dressings of dung in every case except that of apples, and were increased by artificials in every case with the exception of apples and gooseberries. The growth was increased by dung except in the case of apples, and in a lesser degree by artificials. The authors of the report emphasize the fact that the modern grower, to be successful, must, to a certain extent, be an experimentalist. They rightly contend that the spirit of investigation, when properly directed, can never fail to benefit the investigator.

Arrangements are being made for an International Horticultural Exhibition at Edinburgh, on September 13th and two following days. Traders from all parts of the world are expected. Most of the London nurserymen will, of course, endeavor to outvie their northern colleagues.

The Royal Horticultural Society have arranged an excellent series of shows to be held in London this year. There is to be another show of Colonial fruit in the spring, in addition to the exhibition of home-grown produce in the autumn. The Society is making increased headway since it took possession of the handsome new hall and offices in Vincent Square, Westminster.

Wm. H. Adsett.

London, England, Jan. 21, '05.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

We learn from the European consular reports that Austro-Hungarian and English makes of agricultural machines are outselling those of other countries on account of the long credit terms accorded purchasers. It would be interesting to know the length of time given. We were under the impression that the credit system in our own country had reached its limit, and that it was about time to work in the other direction. "Short accounts make long friends."

Our account of the meeting of the New Jersey Floricultural Society's meeting at Orange, last Friday, reveals a rare and most happy accord between the gardeners and their employers in that favored section. The gentleman who so generously contributed the silver cups avowed that if he were not a foundryman he would be a gardener. There is nothing that more charmingly demonstrates the universal kinship of mankind than the love of horticulture. Here all meet on common ground. Orange has set an excellent example.

There are unmistakable evidences of increasing activity and interest in club and society work in all sections of the country. An awakening to the great usefulness of these agencies in promoting the general and individual welfare cannot fail to exercise a most stimulating influence on American horticulture. When the individual comes to a realization of the power of coöperation and united effort, when he experiences that peculiar gravitation which "makes one vast heart out of the many," then and not till then is the best advancement assured. Don't neglect your society.

Our London letter in this number conveys the pleasing news of a growing appreciation of American carnations in England. It is very true that the American carnation overthrows many of the accepted rules hitherto recognized by the English carnation fancier, but it is not surprising that its distinctive qualities of floriferousness, stem and fragrance should win a place for the American class, nevertheless. It is not improbable that we, too, may yet fall into line and find a place in our judging scales for those ideals of form which appeal so forcibly to the British expert.

Our cut flower market reports indicate a superfluity of violets unprecedented at so early a date in the season. It is the opinion of merchants well informed on the capacity of the communities supplied from the big producing section about Rhinebeck, that more than enough violets are now grown to supply any possible consumption and that an increase of the output simply adds to the waste without adding a dollar to the returns for the growers. This view does not seem to appeal to the growers themselves, for it is stated that no less than twenty-eight new violet houses are to be built in Rhinebeck this spring. It is admitted that the very low temperature, so long continued, is in a large degree responsible for the complete break-down in violet values so early in the season, as it shuts out entirely the street vendor who is an indispensable factor in the marketing of the larger part of the violet product as soon as it touches popular prices.

We like the advice given by Mr. Stroud in his talk at Philadelphia on Carnation Growing, that growers make frequent visits to their wholesale commission man and learn by consultation and observation how they can best coöperate with him by supplying the goods in such condition as will enable him to secure best results. The commission man, standing between the grower and the retail dealer, has exceptional opportunities for seeing and understanding the troubles that beset each, and must, from the nature of his business, be just to both. It is as much to his interest as to that of the grower that stock should arrive at the market in the condition which will quickly realize the highest price; it is also as much to his interest as to that of the retailer that the latter receive a fair equivalent for his money in the flowers which he has yet to dispose of to critical retail buyers. The not infrequent humiliating fate of over-ripe or carelessly packed flowers is by no means a new subject, and there is little that can be said on it that has not already been said earnestly and often, but its bearing on the cut flower industry cannot be overestimated. Both grower and retailer will be directly benefited by frequent "heart-to-heart" talks with the men who, as wholesale dealers, fill so important a place in the process whereby flowers find their way from greenhouse to drawing-room, and this not so much on the mere question of "returns," as for the purpose of ascertaining by mutual investigation and observation how to minimize the effects of the marketing process and demonstrate how best to maintain the prestige of the cut flower in the eyes of the purchasing public.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heartt."

I think the paper is fine and needs the hearty support of all who are at all interested in the trade. Wishing you every success. — J. T. B.

Please find enclosed check as payment for HORTICULTURE for one year. I feel that the carnation number alone is well worth the amount. — J. W. R.

Inclosed please find $2.00 for two years' subscription to your paper. I like the way your paper is gotten up very much. Its business form and clearness of printing make it show up to good advantage. Wishing you every success. — E. B.

You certainly deserve credit for your journal; every member of our family reads it with great interest. I have given nearly all the numbers, after we have read them, to different members of the profession, and all are praising HORTICULTURE. We will send you a list of subscribers in the near future. — V. S.

HORTICULTURE. This is the title of a new gardening paper published in Boston, Mass., U. S. A. It is well illustrated and attractively produced, so it should have a prosperous future. The first number contains some interesting articles, notably one about the large azalea nursery, at Bruges, of Mr. Sander, "Useful Ferns for Everyday Use," etc. We wish our contemporary every success. — *The Garden, London, Eng.*

CULTURE OF DENDROBIUM FORMOSUM GIGANTEUM

January 10, 1905.

Editor Horticulture: —

Mr. Storer says, in HORTICULTURE, December 31, 1904, that Mr. McWilliam has Dendrobium formosum giganteum nineteen years in cultivation. This is really remarkable. Can you get a note as to how Mr. McWilliam grows them? It would be very interesting, especially to the trade. I knew a man who threw away several hundred after four years' culture. Yours hastily,

*

WHITINSVILLE, MASS., *Jan.* 25, 1905.

Dear Sir: —About the Dendrobium formosum giganteum. In June, 1885, I received four plants from Hugh Low & Co. (I think their place then was at Clapton, but now Endfield). The plants flowered that fall, and the present flowering makes twenty years' flowering in succession. The plants have been divided many times since. There have been some bought later.

As grown here they are potted in orchid pots or baskets, the potting material being fern root. They are grown in the warm-house, well up to the roof-glass, with a light shading. When well rooted in the potting material they are kept wet, and when maturing their growth they get manure-water freely. When the growths are finished and the flower buds show, the plants are moved into a cooler house, where the temperature runs about 60° at night, until after flowering; then they are moved into a house which is kept at from 45° to 50° at night, with no shading, where they stay anywhere from six weeks to three months. I have kept plants in the cool-house for six months without any bad effect. When rested they are put back into the intermediate-house until they show signs of starting into growth, when they are moved into the warm-house again for the summer.

GEO. MCWILLIAM.

GOOD OLD JACQ.

General Jacqueminot as a forcing rose is seldom heard of now, but J. William Colflesh at 53d and Woodland Ave., Philadelphia, still runs a house of it. He leaves the plants permanently in this house, and uses solid beds, inarching the plants. On February 2, the date of our visit, the big fat canes had not yet begun to show a leaf, but a few days will make a great change. Mr. Colflesh makes a specialty of Easter plants such as hydrangeas, ramblers, azaleas, etc., and does them well. Pot roses such as Hermosa, Teplitz and Soupert are grown largely here for spring sales, also ivy and other bedding plants, — this being one of the few places that still cater to the bedding plant trade, while all around acres of glass are going up for specialties.

THE SOUTH'S MISFORTUNE

If the truck farms in what we have hitherto been glad to consider all-the-year garden States are going to freeze up every time we have a little cold snap, it appears we may no longer put our trust in them. We may no longer feel sure that, come next week or next month, we can look to the Southern States to furnish our tables wth the lettuces we like; reckoning upon farmers in the sunny South to send us string beans and peas and radishes in January and February will be out of the question in menu making. Still, since it's an ill wind that blows nobody good, we may in the premises expect to see the hothouse farmers of Massachusetts putting more of their acres under glass. Already they have enough land so covered to know how handsome the returns can be, and if they wish to expand we assure them they will find consumers always ready to buy their products. Our palates are attuned to green things in the winter now, and if they do come high we mean to have them. The misfortune of the Southern farmers furnishes the Massachusetts gardeners with an opportunity they do not have every year. — *Boston Transcript.*

WAGON EXPRESS TO NEW YORK A SUCCESS

The night wagon express between Chatham and New York has just completed its second year of constant service. In warm and cold weather, by moonlight and through fogs, in dark nights and stormy ones, this wagon never fails every evening to visit the various greenhouses about Chatham; distributing the "empties" and collecting the past day's crop of flowers.

During the wee small hours of any and every night, Saturdays excepted, the wagon, with its fragrant load, is traversing the lonely highways and streets of Newark and Jersey City. Each morning it arrives at seven o'clock at Chatham's first agency in Twenty-sixth Street, New York. Even the storms of the past winter have not delayed it; its delivery is always prompt and the goods never touched by frost. There have been times when passing Wyoming at about three A.M., the horses encounter untrodden snow all through the Oranges, and they are the ones that have to make the first tracks for a number of miles. During the recent big snowstorms, think what this has meant. Even this ordeal has not broken their record of an always prompt delivery.

By this method the grower saves himself the cost of taking his goods to the station. At his very door he is relieved of them and has the satisfaction of seeing them at once sheltered from the cold, and they are kept so sheltered right up to their destination in New York. By an intelligent use of a smaller or larger number of lighted lanterns, these perishable goods are kept just cool enough but never allowed to get frostbitten. There are, of course, relays of horses, and the men who assemble the consignments from Madison and other neighborhoods are relieved at Summit by other men who accompany the loads across the flats. In these days of railroads this transportation by wagons may seem primitive, but railroads never visit one's warehouse nor carry goods without change over ferries or up city streets. This is a case where re-adopting old ways has proved to be a progress. — *Chatham Press.*

Awfully sorry, old man, but "Pride goeth before a fall." And it was Old Boreas who took the fall out of the wagon express two weeks ago. First knock-out, and we hope it will be many years before it happens again.

NEWS OF THE CLUBS AND SOCIETIES

CINCINNATI FLORISTS' SOCIETY

Herewith we give the schedule of prizes offered for the February exhibition of this society. A good competition is solicited. These shows are given for the purpose of educating the public in floriculture and a good showing is desirable, as from four to five thousand persons visit them in the afternoon and evening.

FEBRUARY 11th, 1905

Special Exhibition of Roses at Jabez Flower Market Elliott

	1st	2d	3d
12 Am. Beauty,	$10 00	$6.00	$4.00
25 Bridesmaid,	4 00	3.00	2.00
25 Bride,	4 00	3.00	2.00
25 Meteor,	4 00	3 00	2.00
25 P. des Jardins	4.00	3.00	2.00
25 Golden Gate,	4.00	3.00	2.00
25 Ivory,	4 00	3 00	2.00
25 Liberty,	4 00	3 00	2.00
Best display of violets,	6.00	4.00	3.00
Best general display	10.00		

Anything new or meritorious in plants or cut flowers will also be competed for.

The S. A. F. Medals, one silver and one bronze, offered by the Society of American Florists and Ornamental Horticulturists and awarded by the Cincinnati Florists' Society, for a new and meritorious plant or flower of American origin. The medals may be competed for at this and subsequent shows, not less than twelve blooms to be staged of any cut flower in competing for above medals. Medals to be awarded at March exhibition. Rules of Cincinnati Florists' Society will apply to the above.

GEORGE MURPHY, *Sec'y.*

REPORT OF MONTHLY MEETING OF T. H. S.

The Tarrytown, N. Y., Horticultural Society held the first meeting of the year on Tuesday, January 31st. The newly-elected president, Mr. Francis Gibson, occupied the chair in a pleasing and masterly manner. The prize of the evening (a pair of handsome sleeve links given by Mr. L. A. Martin) was for the best plant suitable for table decoration. Several foliage and several flowering plants were placed in competition. The judges, J. Mooney and Howard Nichols, after considerable deliberation awarded the prize to William Scott's exhibit, a plant of Croton superba. A very interesting discussion was brought out regarding the relative merits of flowering *versus* foliage plants for table decoration, the concensus of opinion seeming to lean to the plant in flower.

The F. R. Pierson Company exhibited several vases of carnations and were awarded a certificate of merit for Variegated Lawson, also honorable mention for vases of Flamingo and White Lawson. The secretary announced that he had an offer of two special prizes for the next November show, one of $25 from Mrs. J. B. Trevor for twelve best blooms of Glenview chrysanthemum, and a silver cup from F. R. Pierson for fifty blooms of Variegated Lawson. Both prizes were accepted and votes of thanks tendered to the donors. The next meeting takes place on February 28th.

WM. SCOTT, *Cor. Sec'y.*

ANNUAL DINNER OF NEW YORK FLORISTS' CLUB

Saturday night, February 4th, was a gala occasion at the St. Denis Hotel, New York. The club turned out about seventy strong in dress suits and blithe of heart and made merry until midnight, about a board well-supplied with provender and appropriately adorned with orchids, carnations, violets and daffodils — the best of the growers' product. "Tommy" Baker was there with his corps of melodious artists and the chinks in the program were industriously filled in with chorus songs. A printed sheet was distributed having the words for the choruses so that all might join in. And all did join in, most lustily, and "He rambled till the butcher cut him down," "Good-bye, little girl, good-bye," "Put down six and carry two," "Down where the Wurzburger flows, flows, flows," and similar favorites were rendered with rollicking vivacity. Speeches? Yes, there were a few, but what of it? They were'nt out for speeches and speeches were as superfluous in that hall as a report of them would be here. Above all the rest, as usual, was the merry talk of irresistible Patrick O'Mara. President Traendly beamed and spoke briefly in appreciation of the enthusiasm shown. W. F. Sheridan as toast-master was unruffled as ever. Vice-president Shaw, treasurer Weathered, W. J. Stewart, Alex. Wallace, C. H. Totty, J. G. Esler, "War horse" Burns, John Birnie and others contributed each their mite of congratulation, song or story, and Robert E. Berry raised a veritable whirlwind with a speech that would put the County Chairman into abashed retirement. And everybody went home happy.

The next meeting of the New York Florists' Club, Monday evening, February 13th, will be Ladies' Night, also Carnation Night. This combination ought to bring out a record attendance of members and visitors. If you have a new carnation, that's the place to take it, and if you want to see all the novelties, that's the place to go. And if you're not a member you can't find a better night for the initiation ceremonies.

A GOOD TIME AT ORANGE

The New Jersey Floricultural Society and guests made merry on Friday evening, February 3d. It was the annual supper of that prosperous fraternal aggregation and was, as usual, a gratifying success. Previous to the supper, the regular meeting of the society was held and the tables were resplendent with the initial exhibits of plants and flowers in competition for the silver cups to be awarded a year hence. Officers' reports all gave evidence of the enviable prosperity enjoyed by the society during the past year. A feature of unusual interest was the presence of Mr. William Runkle, on whose estate president D. Kindsgrab is gardener, to present in person the twelve silver cups he had generously given as premiums in the annual competition. His speech was replete with kind and appreciative words for the gardener and his avocation. He spoke of the community of interests, the friendship that should exist between employer and gardener and the grand opportunities open to all who strive earnestly and faithfully. Referring to the late chrysanthemum exhibition he promised to see that a larger and better hall shall be provided for next year and that the cup prizes will be also forthcoming. A message from Mr. Colgate was read also giving assurance that when the society should want anything, all they need to do is to ask for it. A rising vote of thanks was accorded Mr. Runkle.

The cups were distributed as follows:

CLASS A

Flowers. 1st, Peter Duff; 2d, George Smith.

Plants. 1st, A. W. Bodwell; 2d, D. Kindsgrab.

Fruit. 1st, Peter Duff; 2d, William Reed.

CLASS B

Flowers. 1st, C. W. Ashmead; 2d, H. Horneker.

Fruit. 1st, H. Horneker; 2d, T. Maybury.

Vegetables. 1st, C. W. Ashmead; 2d, T. Maybury.

Among the numerous exhibits one that attracted universal attention was a vase of unusually fine spikes of Euphorbia Jacquinæfolia, contributed by Peter Duff, and it furnished the text for enthusiastic remarks by several of the after-dinner speakers. Quite a number of visitors were present, representing other organizations, the horticultural press, etc., and the hospitality of the hosts was exhaustless.

FLORISTS' CLUB OF PHILADELPHIA

There was a big attendance at the regular monthly meeting of the club which was held on the 7th inst., also a good exhibition of carnations. Edward A. Stroud of the Strafford Carnation Farm was the essayist of the occasion. His remarks on carnation growing, while given with characteristic modesty and diffidence, were very practical and to the point, and were well received.

J E. Haines, Bethlehem, Pa., staged his new red "John E. Haines," a very large, fine flower, which he intends to put on the market next year. Mr. Guttman came over from New York with his famous Victory, and Davis Bros. of Bloomsburg, Pa., sent a vase of white Mary Albert, a vase of dark pink without a name, and a vase of their new red Crisis, which latter appears to be a good commercial variety and is said to be a great bloomer. J. J. Black & Sons, Hightstown, N. J., had a vase of their white seedling which is unnamed as yet, but which from its size and quality bids fair to be heard from yet. John Kuhn staged some seedlings, several of which looked promising, especially a rosy-pink variety labelled number thirteen. S. S. Pennock sent a vase of Weber's Maryland which was much admired, and was pronounced the best all 'round white ever exhibited here. The Strafford Flower Farms contribution consisted of superb vases of Enchantress, Lawson, Prosperity, Flamingo, Fenn, Hinsdale, and Patten. The flowers were of the highest grade, showing the result of careful cultivation.

The following new members were balloted for and elected: E. A. Harvey, Brandywine Summit; William J. Muth, 1516 Sansom St.; Thomas Roberts, Torresdale, and J. A. Gwinner, Philadelphia. Frank Brinton of Wilmington and Frank Ibbotson of Roxboro were proposed for membership and will be balloted for at the March meeting.

A committee was appointed to see about getting up a musicale for the benefit of the club and report particulars at the March meeting.

SOME NOTES ON CARNATION GROWING

Read by Edward A. Stroud, before the Florists' Club of Philadelphia, February 7, 1905

I have been asked to speak on the carnation and hardly know why, being probably the youngest grower around Philadelphia; however, if my experience will be of interest to any of you I am pleased to give it, telling you of our methods, which do not differ, as far as I know, from the general cultivation of the divine flower. Doubtless, after the rose, the carnation is the most useful of flowers, its keeping qualities and the low price for which it can be bought bringing it in contact with the greatest number of people. There has been great advancement made in the culture of the carnation, due to the introduction of the Lawson, by Peter Fisher, which, to my mind, marks the dividing line between the old and the new.

The carnation industry may be classed under three heads; — first, the growing of the flower for the public; second, the production of cuttings for the trade; and third, the raising of seedlings. With us it would be impossible to handle the three together, and we think each grower should decide for himself which branch he and his place are best suited to and which will bring him the best results. We have taken up the cut-flower production and our experience has been a practical one. As far as we can see, there is no great secret connected with producing the flowers; we have tried to follow nature's laws, using common sense — close attention to details — cleanliness and houses well ventilated. One of the most essential points, undoubtedly, is to have good stock to start with, for if the young stock is unhealthy there is little hope of ever obtaining first-class blooms.

We select our stock carefully, from flowering stems as much as possible; of course on some of the new varieties we buy we are compelled to cut closer in order to get sufficient stock. We put in the sand, first, those that take the longest time to make plants, such as Prosperity, Lawson, and Flamingo, following with such as root more quickly. When rooted we pot them into 2-inch pots, then into 3-inch, and if necessary, into 4-inch. We take great care in watering, not allowing the young plants to suffer at any time for want of it; this insures us a clean, kind growth. From the propagating house we move them into the field or into the bench, the latter method being adopted by most of our modern growers. Our slight experience with indoor culture has not been a decided success over field culture, and we think that in our climate, situated as we are, a compromise between the two is much the best. We have adopted the plan of early propagating, planting in the field as soon as the weather permits and lifting by the middle of July. These measures have given us the best results, although we feel that, to make a fair test, planting in the house should be made the same time as in the field and not early in June as we heretofore have done. The objection to indoor culture might be the throwing out of our old plants before Decoration Day, and the poor prices obtainable during the chrysanthemum season. We throw out our old plants in July, take out the soil, whitewash the benches, and then give a thorough fumigation, after which the soil is replaced as quickly as possible, extra labor being hired for this purpose. Last year our houses (of which there are three, each 308 by 30 feet) were emptied on the 17th of July and planted with new stock by the 3d of August; this we consider very important as it would be very poor economy to let the work drag along.

We make a compost heap every fall, consisting of one part cow-manure to three parts soil, adding some air-slacked lime to sweeten things up a bit. We turn the pile once in the spring and again before it is wheeled into the houses. There is one point in regard to soil which we consider very important — what we term its mechanical condition, which means a soil which will drain water freely, and at the same time distribute food to the roots; this is particularly important immediately after planting from the field. The bewildering subject of stem-rot and its causes is, to my mind, due to impaired root action and a drowning process of watering; this can occur in the propagating bench, the pot, the flats or the field, and a check of some sort is generally responsible for it.

We plant carefully, firming the ground around each plant and resort to frequent syringings, watering plants as little as possible while they are getting established. During planting, we shade the houses lightly with cloth, removing it as soon as plants have taken with the soil. Then the daily routine of staking, disbudding and watering begins and we are under way.

The question of what varieties to grow is always an interesting one, the tendency, nowadays, being after something new and it is hard to resist the temptation of buying new things on seeing the exhibitions at our various flower shows. It is well to be progressive, but we advise the man with limited glass not to attempt too many varieties; three or four in the different colors which require the same treatment, is best. It takes some time to become acquainted with the carnation and the special care it likes; and we do not pass judgment without giving each one a fair trial, which cannot always be accomplished in a year. The competition in carnations is becoming stronger every day; the people no longer ask for a red, pink, or white, but mention the name of the bloom desired, and for this reason it is a good thing to tag each variety when it goes to market. In this way the public become acquainted with the various kinds and we find out the most popular. By keeping careful records we find that those producing the greatest number of blooms are not necessarily the most profitable.

IT TAKES $20,000 worth of postage stamps to mail THE MAULE SEED catalogue for 1905. It contains 152 large pages, full from cover to cover of illustrations and descriptions of the best and newest things known in horticulture. As the original introducer of Prizetaker Onion, Nott's Excelsior Pea, Davis' Wax Bean, etc., I know what I am saying when I make the statement that never before have I offered so many novelties in flower and vegetable seeds of real merit. No gardener can afford to be without this book, which will be sent free to all sending me their address on a postal card.

WM. HENRY MAULE, PHILADELPHIA, PA.

Our experience proves that it pays to work together with the commission man, keeping him posted as to what we will have and when we will ship. This gives him an opportunity to make sales which he might otherwise lose. We advise frequent visits to the wholesaler, not necessarily to see the proprietor but to examine our goods there, see how they are keeping, and compare with the product of other growers. Valuable lessons may be learned in this way. It is hardly necessary to call your attention to careful bunching and packing.

In conclusion would quote Mr. Fred Lemon when he said, at the Carnation convention, "If you wish to succeed, nothing is too much trouble."

NASSAU COUNTY HORTICULTURAL SOCIETY

This society held its regular monthly meeting, February 1st, at Glen Cove, N. Y., and elected three new members.

The society enjoyed a very eloquent address from President Thomas Harrison.

Lack of space prevents our giving it in full. We take pleasure, however, in presenting a few extracts.

After speaking of the objects of the organization and his appreciation of the honor of serving as its first president, he said: —

This society represents and embodies the practical knowledge and experience of men who have spent years in acquiring a knowledge of their art, and their work has probably been mingled with successes and failures, and who as members of this organization are willing to impart the results of their experiences and detail their experiments for the benefit of their fellow members. So, from an educational standpoint, I consider a horticultural society is of an inestimable value to every member who attends its meetings.

Individual ambition must make way for united action and sympathy in our work if we are to reap the benefits which should accrue from our organization as a horticultural society. Every member should have the interests of the society at heart, and ardently labor to advance its progress, to the end that our efforts may be appreciated by the community in diffusing a love of nature's noblest and grandest art. Its rank as a profession cannot be questioned by any one. The associations are pleasant and profitable, and the pleasure and enjoyment it affords the poor as well as the rich is beyond conception. Also, in renewing old and forming new acquaintances our social instincts are developed and gratified. . . .

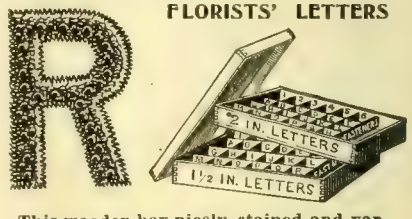
If we wish to keep pace with the progress of the times we must put all our prevailing energy that thinks into motion, and apply ourselves with unwavering persistency in the research and investigation into the mysteries of nature along the lines where science sheds its light upon the art. We, as workers, can then combine theory with practice, and demonstrate, by bringing the results of our work before the public in the shape of exhibitions, that we are men of thought and authorities on our work, and not men who are working simply for their daily wage. . . .

A more scientific knowledge of our work is necessary to bring about this condition of affairs. I, for one, would like to see the day when it will be necessary for a gardener to exhibit his diploma for proficiency in the different branches of the work from some horticultural college to be recognized as a professional horticulturist. This would not be an injustice to the already well-informed practical gardener, but would inconvenience a great many of would-be gardeners, whose only qualifications are that they have washed pots in a palm house, picked up the dead leaves in a rose house, admired the different colors of the flowers in the carnation house, and been led by the ear in at one door and kicked out of the other door of an orchid house, then washed down with the garden hose, then have the audacity to pose as professional gardeners, and aspire to fill some of our most prominent places in the country. These are the men who are "thorns in the flesh," so to speak, and are a detriment to our most noble profession.

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Chicago Jottings

E. F. Winterson Co., have completed the arduous task of their annual stock-taking.

Mrs. Leonard Kill is at a private hospital, and about to undergo a serious operation.

Miss Jennie G. Daniels was married on January 25, to Edwin C. Benthey, a son of F. F. Benthey. The groom is a member of the Benthey, Coatsworth Company.

Fire at Mangel's last Monday A.M., caused by defective electric wiring insulation, caused considerable commotion, but was confined to the passageway leading to storerooms. Loss, estimated at $300.

On February 12th, 1905, the Chicago *Tribune* in their Sunday magazine will publish an article by Uncle John Thorpe entitled, "Nealy Twenty Million Dollars Spent Each Year for Flowers." We are sure Uncle will avoid the frenzied chord.

News Notes

Three greenhouses belonging to J. H. Rebstock at Lancaster, N. Y., were burned on the morning of January 29th.

The building in which Mrs. Myra Patten has a flower store, at Lynn, Mass., was gutted by fire on the night of Sunday, January 29th. Mrs. Patten's loss was $100.

George A. Sutherland, Boston, has added a wire design manufacturnig department to his business. Henry Malotta, formerly with the late John Wajsik, takes charge.

The plants in the conservatories of Stephen Salisbury at Worcester, Mass., have been injured to the extent of probably several thousand dollars, by gas escaping from a leaky main. Many valuable orchids were among the victims.

The florists of Hoboken, New Durham, Rutherford, and vicinity, N. J., think they have at last got on the track of the thieves who have been plundering their greenhouses of flowers and plants for the past year. A quantity of the plants recently stolen have been located by detectives in a Third Ave. store in New York. The amount of the thieving is estimated up into thousands of dollars.

F. T. White of Holbrook, Mass., has a seedling white carnation with which he is much pleased. He says it is in no sense a wonder, but it averages up to such a standard that he will grow it exclusively as a white another season. From the single plant of four years ago he has this year sufficient stock to propagate from, to give him all the plants he needs.

Polygonum for Banking.



The subject of this picture, Polygonum cuspidatum crispulum, is an excellent species for holding banks of streams, especially those that are subject to sudden floods. It flowers in August and September, and is covered with myriads of creamy white, sweet-scented, drooping, feathery panicles, which are good for decorations and are much liked by bees. Fine for an edging to shady woods, but is too rank for the herbaceous garden proper. Surpasses the willow for holding streams. Once established, it is a stayer. The left side of picture is, of course, the polygonum.

Personal

Mr. Keur of C. Keur & Sons, Hillegum, Holland, was a visitor in Louisville recently.

Mr. and Mrs. C. H. Maynard of Allen, Mich., are wintering in the summer breezes at Los Angeles, Cal.

Mr. and Mrs. A. Wiegand, Indianapolis, Ind., will leave Feb. 15th for a two months' visit to Southern California.

Prof. John F. Cowell, of the Botanic Garden, Buffalo, N. Y., leaves on the 15th inst. for Panama to make a botanical survey of the Canal Zone.

Miss Amy K. Luffman, who has had a position in Galveston, Tex., since leaving Birmingham, Ala., has accepted a position with Albert Fuchs, 2059 Clarendon Ave., Chicago.

Visitors recorded in Pittsburg last week: George Huscroft, Steubenville, O., and Mathew Fenton, West Mentor, Pa. In Boston, Winfried Rolker, New York, and E. J. Fancourt, Philadelphia, Pa.

M. H. WALSH
Rose Specialist
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Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

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GROS COLMAN, monstrous, round berries, juicy and sweet. Not good until fully ripe in late autumn.

GROS GUILLAUME, Barbarossa. Berries large and round, juicy and sweet but rather flat flavor. Very late.

MADRESFIELD COURT, berries very large; of true muscat flavor. Rich and excellent.

LADY DOWNE'S SEEDLING, large oval berries of rich aromatic flavor. Dark purple. One of the best late sorts.

MRS. PEARSON, large oval berries, transparent golden color. Luscious and juicy.

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NEW YORK MARKET REPORT

The past week saw a rapid reduction of the rose receipts in the wholesale markets and an inability to supply the call for choice material which sent the price of "specials," particularly of American Beauty, to a figure not reached since Christmas. No other line of cut flowers participated in this excitement, and there is little change to report as to either supply, quality, or demand except in the case of violets which took another tumble. Violets are coming down from the Hudson factories in quantities far beyond the possibilities of absorption. The growers are all complaining and protesting against the prices being returned to them by the wholesalers, but there seems no remedy except a change in the weather. As soon as the temperature has moderated sufficiently to permit the street men to sell violets in the open air, the surplus will have some chance to move; at present it is impossible. All that can be done is being done. The quality of violets is grand, — unprecedentedly so — and they are well worth a good price; but there are tens of thousands more than are wanted every day, and "there you are."

NEWPORT, R. I., MARKET REPORT

The flower market was much improved last week. There was a better demand and the supply was a little short, due to the somewhat unexpected cold snap which retarded stock, and also caused the local florist to make very conservative estimates of their possible needs.

Roses and carnations are selling well and bringing better prices than last year at this time. The few lilies brought in are picked up quickly, although most growers are holding these back for Easter. They consider it pays them better to have a sure sale for a large number at a moderate price than run the necessary risks of early forcing. Other bulbous stock is not much in evidence. Plants are not selling well, with the possible exception of small ferns. Bedding plants seem to be scarcer than usual, a fact which together with a promise of a good Newport summer, would seem to warrant better prices and larger importations, for even in ordinary seasons immense quantities are bought from out-of-town growers.

LATER REPORT

With the mercury hovering down around zero and most people keeping well within doors, it is not at all surprising that but little business was done in cut flowers last week. Now, however, with the weather moderating, and for other reasons, a much more hopeful feeling has taken possession of the local florists. The lull of last week is an annual affair, therefore, in a way looked for, and besides being anticipated it is usually prepared for; consequently but little loss ensues. Roses and carnations monopolized all the call there was last week and the prices were good, but none too good considering the conditions. Buyers, however, are often only too prone to forget conditions while in search of bargains in flowers.

As I was about to say, the lull of last week afforded the florists an opportunity to make plans for an increased business promised upon the advent of spring if not before. A number of funeral orders have come in during the past few days, and these will help considerably in cleaning what little stock accumulated last week.

FIANCEE CUTTINGS

To the Trade;

We beg to inform all florists who have orders placed for carnation "Fiancee" we have been somewhat disappointed in its refusing to produce enough cuttings for January deliveries owing to its superb habit of producing long flowering stems only.

These stems have now been pinched back from 30,000 plants and there is now an abundance of excellent cuttings coming along.

We are putting in the sand large batches every week and expect by the latter end of March that all orders now on our books will have been filled. There is an average of 20 cuttings to the plant now in sight, making a total of 600,000 available cuttings for spring deliveries.

"Fiancee" has no disease of any kind; it makes fine strong plants by fall, even from May struck cuttings, in fact it is the strongest grower of any carnation.

We further wish to state that we intend every one shall be satisfied with the quality of cuttings received, would rather be the loser ourselves than otherwise.

Those who visited the greenhouses after the convention can vouch for the reliability of this statement in the whole, and especially for quality and quantity of cuttings obtainable.

We ask every one to be patient and in the end they will have no kick coming to any one.

CHICAGO CARNATION CO.,
JAMES HARTSHORNE, *Mgr.*

Business Changes

Ryan Bros. have closed out their store in Quincy, Mass., and returned to Braintree.

The Manchester (Conn.) Floral Company has vacated the store on Elm Street, Rockville.

The Boston Cut Flower Company has removed to new and spacious quarters at 14 Bromfield Street.

The Otto Grundman Company, Secaucus, N. J., has been incorporated with a capital of $20,000.

Alexander Whiteley, manager of the Richards Bradley greenhouse, at Brattleboro, Vt., will resign his place March 1. Mr. Whiteley is undecided whether to remove to Boston or accept an offer from Connecticut.

J. E. Nelson of Field's Corner, Boston, has bought a farm in Hingham and will move there upon the expiration of the lease of his present place of business. "Raddy" has evidently made some money at the old stand, and if the lease can be renewed at the present terms it will leave a possible chance for some one else to do the same.

John R. Weir and Frederick Weir, the well-known florists, who have an establishment at Fulton Street and Elm Place, Brooklyn, have brought suit in the Supreme Court against Frances E. Barker, as sole surviving trustee under the will of Charles Barker, who died some twenty-five years ago, for a renewal of the lease of the store property now occupied by the florists and sublet by them to Silsbe & Company. Plaintiffs claim that they have an option to a renewal of the lease in consideration for their carrying a suit brought by Rosa Zipp in a dispute to enforce a court yard restriction of fifteen feet alongside their premises on Elm Street, to the Court of Appeals. The last five-year lease at $11,000 a year rental expires May 1, 1905, and plaintiffs stand ready to renew for another five years, but defendant refuses to give such lease. — *Brooklyn Standard Union.*

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Feb. 6	ST. LOUIS Feb. 6	PHILA. Feb. 7	BOSTON Feb. 8
ROSES				
Am. Beauty, Fan. & Sp.	32 00 to 40 00	40 00 to 50 00	50.00 to 75.00	50.00 to 60.00
" Extra	25 00 to 30 00	25.00 to 35.00	35 00 to 40.00	25.00 to 35.00
" No. 1	16 00 to 20 00	12.00 to 20.00	25 00 to 30 00	12.00 to 20.00
" Lower grades	6 00 to 12 00	4 00 to 6.00	3.00 to 12.50	6.00 to 8 00
Bride & Maid Fan. & Sp.	15 00 to 18 00	10 00 to 12.50	15.00 to 17.00	12 00 to 16.00
" " Extra	12 00 to 15.00	6 00 to 8.00	12 00 to 15 00	8.00 to 12.00
" " No. 1	10 00 to 12 00	4 00 to 5.00	8.00 to 12.00	6.00 to 8.00
" " Lower gr	8 00 to 10 00	..... to 12 50	2.00 to 6.00	2.00 to 4.00
Liberty, Fancy & Special	12 00 to 15 00	..... to 10.00	30.00 to 35.00	..... to .....
" extra	..... to 10.00	6.00 to 8.00	25.00 to 30.00	8.00 to 12.00
" No. 1	.... to 8.00	..... to	15.00 to 20.00	6.00 to 8.00
" Lower grades	..... to 6 00	..... to	3.00 to	..... to 4.00
Golden Gate, Ivory, Chatenay — Best	10 00 to 15 00	10.00 to 12.50	15 00 to	8.00 to 12.00
Golden Gate, Ivory, Chatenay — Medium	8.00 to 10 00	..... to 8.00	10 00 to 12.00	6 00 to 8.00
Golden Gate, Ivory, Chatenay — Culls	4 00 to 6.00	5 00 to 6.00	3.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy Class	3 00 to 5.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
General Class	2 00 to 4.00	2.00 to 3.00	1.50 to 3.00	2.00 to 3.00
Lower Grades	1.00 to 2.00	..... to 1.50	.50 to 1.00	1.00 to 2.00
VIOLETS				
Special	.75 to 1.00	.75 to 1.00	.50 to .75	..... to .....
General	....25 to .60	..... to .50	.25 to .50	.30 to .50
Single	....25 to .75	..... to .40	.20 to .50	.25 to .50
ORCHIDS				
Cattleyas	32 00 to 50 00	..... to	50.00 to	..... to .....
Cypripediums	12 50 to 16.00	.... to	15.00 to	..... to .....
BULBOUS				
Lilies	15.00 to 20.00	..... to	12.50 to 15 00	8.00 to 12.00
Lily of the Valley	2 00 to 4.00	3.00 to 4.00	2.00 to 5.00	2.00 to 3.00
Roman Hyacinths	3 00 to 4.00	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00
Paper White Narcissus	3 00 to 4.00	..... to 3 00	2.00 to 3.00	1.00 to 2.00
Trumpet Narcissus	3 00 to 4 00	..... to	4.00 to	2.00 to 4.00
Tulips	3 00 to 5 00	3 00 to 4.00	3.00 to 4.00	2.00 to 4.00
Callas	12 50 to 16.00	12.50 to 15.00	10.00 to 12.00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4 00 to 8.00	3.00 to 5 00	3.00 to 6.00	2.00 to 3.00
Sweet Peas	...75 to 1.25	..... to .75	.50 to 1.00	1.00 to 1.50
Adiantum Cuneatum	..... to 1.00	..... to	1.00 to	.75 to 1.00
" Croweanum	..... to	..... to	1 50 to	..... to .....
" Farleyense	..... to	..... to	10 00 to	..... to .....
Smilax	10 00 to 12.50	..... to 15.00	10.00 to 12.00	12.00 to 16.00
Asparagus Plumosus; strings	35 00 to 50 00	..... to	50.00 to	..... to 50.00
" " bunches	25 00 to 35 00	..... to	50 00 to 75 00	.... to .....
" Sprengeri "	25 00 to 35 00	..... to	50.00 to 75.00	.... to .....
Stevia	.. .. to	..... to	..... to	..... to .....
Freesia	..... to	..... to	..... to 4.00	..... to .....

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Southern Wild Smilax
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At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

CHICAGO MARKET REPORT

With supply decreased by "15° below" weather, yet the receipts of flowers last week were fully equal to the call. American Beauty mid-winter crops are coming to an end and values are gaining. Growers of teas who six weeks ago anticipated improved yields, are much disappointed; the average cut in January was the lowest in the history of the trade. Liberty is in short supply. Meteor is the only variety suffering for orders. A wonderful improvement is noticed on Reinberg's rose, Uncle John; fine stems and beautiful color which sets the pace for first place among the season's novelties.

The increased supply of carnations on account of McKinley day speculation indicated that considerable stock was held for the last minute and much of it awaited sales on the opening day of the next week. However, there seems to be a shortage of white and red carnations. Retailers report unsatisfactorily on McKinley day sales. The concensus of opinion seems that the day should be made a legal holiday and its meaning more advertised. Violets continue on the toboggan slide.

A noteworthy feature of last week's market was the enormous demand for bulbous stock and Roman hyacinths, and narcissi are once again on a paying basis. Lily of the valley is of fine quality and cleaned up daily. Shipping trade was marked by a great increase and this has kept the market from lowering. Greens are in sufficient supply, except Adiantum which is good property to have. Callas and Harrisii are equal to the call. Tulips can be had in any color now, and Dutch Roman hyacinths have put in their appearance.

Headquarters in Western New York for
ROSES, CARNATIONS
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs.
383-87 Ellicott St. BUFFALO, N. Y.
GIVE US A TRIAL WE CAN PLEASE YOU

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59 Wabash Ave., CHICAGO.
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FRED EHRET WHOLESALE FLORIST
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1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

PHILADELPHIA MARKET REPORT

The Beauty market is very tight, demand strong; Liberty and other varieties in good demand and quality improving. Bride and Bridesmaid better than at any time this season. A steady, healthy demand exists. Carnations are firmer, especially the better grades. Lawson for dark pink, Enchantress for light, Boston Market for white, Flamingo for scarlet, Roosevelt for crimson, and Prosperity, are the leaders. Lily of the valley and lilac selling well and bulbous material improved. Golden Spur is the best daffodil. Single violets move better, but doubles, sluggish. All green material normal in supply and demand brisk. Growers are said to clip the size of strings and bunches to equalize the market, and so quoted prices remain unchanged. Specialties noted at Philadelphia cut flower wholesalers' this week were good mignonette and fancy Rhinebeck violets at Ed Reid's; splendid acacia sprays and Lukens' fancy freesia at Niessen's; fancy freezia and Bride roses at W. J. Baker's, and gardenias and Asparagus Sprengeri and plumosus from Florida at S. S. Pennock's. This asparagus is a novelty in this market and very acceptable, being of a very dark green and superior in every way. Many prefer it to the northern-grown stock.

PITTSBURG MARKET REPORT

Frigid weather has not brightened the prospects of local growers and retailers during the past week. Fancy carnations and roses are curtailed and considerable shipments are coming in from other places, but the supply in general was equal to the demand. Normal prices again prevail except on choice Beauty and Liberty roses. Though American Beauty is mostly in demand, Liberty is pressing it very close and some with 2 to 3-foot stems are eagerly bought up. In carnations, while Enchantress and Lawson are the most popular, there is quite a demand for Prosperity and also good scarlets, of which a good fancy variety is lacking in this field. Bulbous stock is here in profusion, white and pink tulips more in demand than other sorts. Daffodils and jonquils are plentiful, also lily of the valley, mignonette, violets, sweet peas, callas, white lilacs, but purple lilac is scarce. Freesias are in demand and are not plentiful at this writing. We have just received warning from Weather Bureau of another cold wave, so that we can prepare by keeping the coal shed door open and our gas-metre well oiled.

LOUISVILLE MARKET REPORT

This past week business conditions have been about up to expectations, with business probably a little on the slow side. The severe weather has had probably a great deal to do with it. Carnations are short in quantity; however, the demand and quality are very satisfactory. Roses have been somewhat disgusting in quality, taking price, etc., into consideration. The demand is a little slow. Lily of the valley is plentiful, with very little demand, but the quality is exceptionally good. Violets of good quality abundant, with the demand fair. Bulbous stock will soon be on in great quantities, but the demand so far has not been very bright.

Henry Fuchs has had quite a lot of trouble with some of his tulips. When the flowers are about ready some of the stems seem to take a fancy to rot, making it a very undesirable feature.

BOSTON MARKET REPORT

The market lacks stability as compared with last week and weakness is apparent in all lines. Roses are in better supply and increasing daily. Quality is also improving. Carnations are increasing as to receipts, with prices tending downward. Violets are decidedly a drug, many being left to face the chance of a bargain counter deal. All bulbous stock is in over supply, with difficulty to place much of the receipts. Ferns are decidedly scarce.

ST. LOUIS MARKET REPORT

Roses are scarce in St. Louis, and carnations plentiful. All other market flowers normal. Trade is generally fair to good.

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Write for Market Prices on Flowers
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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 4, 1905.	First Half of Week ending Feb. 11, 1905.
ROSES		
Am. Beauty, fan. and sp	75.00 to 100.00	..... to 75.00
" extra	25.00 to 35.00	25.00 to 35.00
" No. 1	8.00 to 15.00	8.00 to 15.00
" Lower grades	2.00 to 4.00	2.00 to 4.00
Bride and Maid, fan. and sp	12.00 to 15.00	12.00 to 15.00
" " extra	8.00 to 10.00	8.00 to 10.00
" " No. 1	5.00 to 6.00	5.00 to 6.00
" " Lower gr	3.00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	35.00 to 40.00	35.00 to 40.00
" extra	12.00 to 20.00	12.00 to 20.00
" No. 1	6.00 to 14.00	6.00 to 14.00
" Lower gr	2.00 to 3.00	2.00 to 3.00
Golden Gate, Ivory, Chatenay: Best	12.00 to 15.00	12.00 to 15.00
Golden Gate, Ivory, Chatenay: Medium	6.00 to 8.00	6.00 to 8.00
Golden Gate, Ivory, Chatenay: Culls	3.00 to 4.00	3.00 to 4.00
CARNATIONS		
Fancy Class	4.00 to 6.00	4.00 to 6.00
General Class	1.50 to 2.50	1.50 to 2.50
Lower Grades	.50 to 1.00	.50 to 1.00
VIOLETS		
Special	.40 to .75	.40 to .75
General	.25 to .40	.25 to .40
Single	..... to	..... to .....
ORCHIDS		
Cattleyas	25.00 to 75.00	25.00 to 75.00
Cypripediums	12.00 to 15.00	12.00 to 15.00
BULBOUS		
Lilies	10.00 to 12.00	10.00 to 12.00
Lily of the Valley	1.50 to 3.00	1.50 to 3.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Paper White Narcissus	..... to	..... to .....
Trumpet Narcissus	2.50 to 4.00	2.50 to 4.00
Tulips	1.50 to 5.00	1.50 to 5.00
Callas	8.00 to 10.00	8.00 to 10.00
MISCELLANEOUS		
Mignonette	1.00 to 6.00	1.00 to 6.00
Sweet Peas	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	..... to 1.00	..... to 1.00
" Croweanum	..... to 1.50	..... to 1.50
" Farleyense	..... to 10.00	..... to 10.00
Smilax	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" " bunches	20.00 to 40.00	20.00 to 40.00
" Sprengeri "	20.00 to 35.00	20.00 to 35.00
Stevia	..... to	..... to .....
Lilac, per bunch	..... to	..... to .....

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OPEN 6:00 A. M.
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113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

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Will find a reliable market with
W. H. GUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers.
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48 West 30th Street, New York City
Telephone No. 325 Madison Square.

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Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

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CAREFUL PACKING and SHIPPING
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Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
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115 West 30th St., New York
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Wanted. A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Jan. 24	BALTIMORE Jan. 30	BUFFALO Jan. 31	PITTSBURG Feb. 6
ROSES				
Am Beauty, fan. and sp.	50.00 to 60.00	50 00 to 60.00	50 00 to 60 00	50 00 to 60 00
" extra	..... to 35.00	35 00 to 40.00	25 00 to 35 00	30 00 to 40.00
" No. 1	..... to 25.00	25 00 to 30.00	15.00 to 20 00	15 00 to 20 00
" Lower grades	4.00 to 8 00	5 00 to 15 00	3.00 to 6.00	6.00 to 10 00
Bride and 'Maid, fan. and sp.	10.00 to 12'00	10 00 to 12 00	..... to	..... to 15 00
" " extra	8.00 to 10.00	8.00 to 10 00	12 00 to 15 00	10 00 to 12 00
" " No. 1	6.00 to 8 00	6.00 to 8.00	8.00 to 10.00	6 00 to 8 00
" " Lower gr.	2.00 to	4.00 to 5.00	3 00 to 6 00	3.00 to 4.00
Liberty, fan. and sp.	8.00 to 10.00	..... to	15.00 to 20 00	..... to 20 00
" extra	6.00 to	..... to	12.00 to 15 00	.... to 15 00
" No. 1	5.00 to	..... to	8 00 to 10 00	6 00 to 10.00
" Lower gr.	2.00 to 3.00	..... to	3 00 to 6 00	..... to 4.00
Golden Gate } Best	8.00 to 10.00	10 00 to 12.00	8 00 to 10 00	..... to 12 00
Ivory } Medium	6.00 to	6.00 to 8.00	5 00 to 7.00	..... to 8.00
Chatenay } Culls	6.00 to 10.00	4.00 to 5.00	2.00 to 4.00	..... to 5 00
CARNATIONS				
Fancy Class	5.00 to 6.00	4.00 to 5.00	5.00 to 6 00	4 00 to 5.00
General Class	3.00 to 4.00	2.00 to 2.50	3 00 to 4.00	2 00 to 3 00
Lower Grades	1.00 to 2.00	1.00 to 1.50	1.50 to 2.50	.75 to 1 50
VIOLETS				
Special	1.00 to . . .	..... to .75	1.00 to 1.25	1.00 to 1.25
General	..... to .50	..... to .60	.50 to .75	.50 to .75
Single	.50 to .75	.60 to .75	.50 to .75	.20 to .30
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to 15 00
BULBOUS				
Lilies	12.00 to 15.00	12.00 to 15 00	..... to 15.00	12 00 to 18 00
Lily of the Valley	4.00 to 5.00	3.00 to 4 00	3 00 to 5 00	3.00 to 4 00
Roman Hyacinths	2 00 to 3.00	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00
Paper White Narcissus	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	..... to 3 00
Trumpet Narcissus	..... to	..... to	..... to	4 00 to 6 00
Tulips	..... to	3 00 to 4.00	3 00 to 4.00	2 00 to 5 00
Callas	10.00 to 15.00	6.00 to 10.00	8 00 to 10.00	10 00 to 15 00
MISCELLANEOUS				
Mignonette	..... to	3.00 to 4.00	3 00 to 6.00	1 00 to 4 00
Sweet Peas	1.00 to 1.50	1.00 to 1.50	.50 to 1.00	.50 to 1 00
Adiantum Cuneatum	..... to 1.00	..... to 1 00	.75 to 1.00	.75 to 1 00
" Croweanum	..... to	..... to	..... to 1 50	1 25 to 1 50
" Farleyense	..... to	..... to	8.00 to 12 00	..... to .....
Smilax	10.00 to 15.00	15.00 to 25 00	..... to 15 00	12.50 to 15 00
Asparagus Plumosus, strings	..... to 50 00	25.00 to 50.00	40 00 to 60 00	30 00 to 50 00
" bunches	..... to 35.00	25.00 to 50 00	25 00 to 50 00	30 00 to 40 00
" Sprengeri "	..... to 25.00	25 00 to 50.00	25.00 to 50 00	40 00 to 60 00
Freesia	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	..... to	..... to .....

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

Philadelphia seedsmen report retail trade as rather backward to date.

Some of the finer types of wax beans are very scarce. This is especially true of Valentine Wax.

It is reported that potatoes are rotting badly, and sound seed stock should bring a good price next spring.

W. C. Rickards, Jr., of Thorburn & Co., has returned from a very successful trip among the Long Island growers.

Al. Wheeler, with Weeber & Don for the past three years, has gone into partnership in the firm of W. E. Marshall & Co.

Seedsmen everywhere in this country and abroad are experiencing a phenomenal demand for that sterling novelty, Nicotiana Sanderæ.

Noroton Beauty, Thorburn & Co.'s new potato, is in big demand and it would seem that its sale this season will exceed that of any potato novelty ever introduced in the United States.

Heavy frosts in the south of France have destroyed all the flowers on the Riviera and it is probable that Roman hyacinths will be high in price and small in size on account of the check to their growth by the freezing.

Mr. John H. Allen, the veteran and much respected seed grower of Pictou, Ont., paid a visit to his old friends in New York city last week. Mr. Allan's call was purely social as he retired from active business several years ago.

Business has opened up much earlier than usual with the New York seedsmen. Retail orders are coming in so briskly as to denote a good season. In some establishments they have been working nights for the past three weeks and have many orders ahead.

A new disease, the character of which has not yet been determined, has appeared on the peanut in German East Africa where the peanut is one of the most important agricultural plants. Whether of bacterial or fungous origin is not known, but it is very destructive thus far.

The German consul in Bukharest, Roumania, reports that the favorable grain crop of 1904, in Roumania, has caused an increase of about 25 per cent in the purchase of agricultural machines there as compared with the year before. Austro-Hungarian and English makes of machines have outsold those of other countries on account of the long credit terms allowed the purchaser.

William Elliott & Sons are preparing to remove from their place on Dey Street, New York, to 201 Fulton Street, where an entire building is being fitted up for them with electric elevators, steam radiators and all modern conveniences for handling a big business. Land speculation in connection with the "McAdoo tunnel" has raised rents in the old location to an unreasonable limit. Messrs. Elliott will move on May 1.

Catalogues Received

The Mitchell Greenhouses and Nurseries, Mitchell, S. D. A catalogue of general outdoor and indoor stock and floral designs.

William Henry Maule, the Philadelphia seedsman, has made a radical change in his seed book this year by leaving out colored plates and putting the thousands of dollars thus saved into gifts of choice seeds to his customers. This would appear to be good business and no doubt will be duly appreciated. Every florist and market gardener ought to have a copy of the Maule book. Its 152 pages are crowded with good things.

IMPORTANT...

IN ADDITION TO BEING A FINE SUBJECT FOR THE HOLIDAYS THE

CHRISTMAS FUCHSIA

WILL ALSO PROVE VALUABLE AT OTHER SEASONS AS IT IS PRACTICALLY

EVERBLOOMING

READY ABOUT APRIL 15TH. ORDERS BOOKED NOW

2½-in. pots, 35 cents each
$3.50 doz., $25.00 p. 100

Watson's Seed Store
JUNIPER & LOCUST STS., PHILADELPHIA

GLADIOLI
THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

New Crop



Giant Comet Aster

ASTER SEED

From the best American and European Growers.		Lg. Trade Pkt.	Per Oz.
Giant Comet	White, Rose, Bright Red, Light Blue, Dark Blue, The Bride.	$.20	$1.00
	Branching Mixed.	.20	.90
	All Colors Mixed.	.20	.75
Queen of the Market (German Grown) Three weeks earlier than any other variety of dwarf branching habit; fine for cutting.			
	Scarlet, White, Pink, Crimson, Light Blue, Dark Blue, Purple,	.15	.60
	Mixed.	.15	.50
Semple's Branching Immense Flowers, resembling a Chrysanthemum, and very desirable for late blooming.			
	Pure White, Scarlet, Pink, Lavender, Purple.	.20	.75
	All Colors Mixed.	.15	.60
Daybreak, beautiful shell-pink		.30	2.00
Purity, double white		.30	2.50

OUR NEW WHOLESALE LIST FOR FLORISTS MAILED ON REQUEST
Please mention HORTICULTURE — well, mention it, that's all.
JOHNSON & STOKES
217-219 Market St., Phila., Pa.

MORE than half-a million copies of the BURPEE CATALOGUES FOR 1905 have been mailed already. Have YOU received one? If not, it *will pay you* to **write TO-DAY!** A postal card will do. Simply address

BURPEE'S SEEDS, Philadelphia, Pa.,

and you will receive by return mail BURPEE'S FARM ANNUAL,—so long recognized as the "**Leading American Seed Catalogue.**" It is a handsome book of 178 pages, with elegant colored plates, and *tells the plain truth* about all the

Best Seeds that Grow!

If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price-List for Market Gardeners and Florists.

Thorburn's Bulbs

LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for = = = $24.00

Two or more cases at - $7.50 per 1000

J. M. THORBURN & CO.,

36 Cortlandt St., New York.

In writing to advertisers, kindly mention HORTICULTURE.

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Catalogue and Price Lists mailed free

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Seeds, Florists' Supplies, and Agricultural Hardware

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Advertising costs good money. We are doing our best to make it remunerative to our patrons.

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and PLANTS

Ralph M. Ward & Co.

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Quality Seed Bulb Plant S

SEND FOR CATALOGUE

Arthur T. Boddington

342 West 14th Street NEW YORK

Dreer's Superb Double Petunias



For nearly half a century we have been making a specialty of **DOUBLE PETUNIAS**, and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, thus improving the strain every season, and this year's collection is the brightest and most pleasing one we have yet sent out. We offer 15 distinct varieties.

2¼-inch pots, 60c. per doz.; $4.00 per 100; the set of 15 for 75c.

3-inch pots, 75c. per doz.; $6.00 per 100; the set of 15 for $1.00.

SEED OF OUR SUPERB STRAIN OF FRINGED PETUNIAS. Double, 75c. per 500 seeds; $1.50 per 1000 seeds. **Single**, 50c. per trade packet.

DREER'S QUARTERLY WHOLESALE PRICE LIST of Seeds, Plants, Bulbs, etc. is mailed to all Florists. If you do not have it at hand, please advise us and a copy will be mailed at once.

HENRY A. DREER, Philadelphia, Pa.

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THOS. J. GREY & CO.

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..SEEDS..

Farm, Garden and Lawn Supplies

We carry in stock Duplicate Parts Leading Machines

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W. W. RAWSON & CO. Arlington Tested SEEDS BOSTON MASS.

Sow Now

Lobelia Crystal Palace Compacta
1-8 oz., 25c.; ¼ oz., $1.50

Lobelia Erinus Gracilis
1-8 oz., 10c.; ¼ oz., 40c.

W. W. RAWSON & CO.

12 and 13 Faneuil Hall Square, Boston, Mass.

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.

Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

Wholesale Agents for the United States

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J. M. THORBURN & CO., Cortlandt St., N.Y.

VAUGHAN'S SEED STORE, Chicago and N.Y.

SPECIAL OFFER

A FEW THOUSAND FIRST SIZE

Double Von Sions

At $9.00 per thousand while they last.

Best English Cyclamen Seeds

In named varieties, 50c. pkt. $1.25 per 100 seeds.

Boston White Globe Stock

Best for inside growing. Pkt., 10c.; large pkt., 50c.; ounce, $5.00.

SCHLEGEL & FOTTLER CO.

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Lilies Plants and Cut Blooms

Of Highest Grade at ALL SEASONS

Japanese Miniature Plants

RHAPIS

Hinode Florist Co.

5th Street, Woodside, N. Y.

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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.

ANGLE LAMP.

Globe Gas Light Co., 77–79 Union St., Boston.
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ARCHANGEL MATS.

F. R. Care of Horticulture.

ARECA SEEDS.

J. M. Thorburn & Co., New York.

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J. M. Thorburn & Co.,
36 Cortlandt St., New York
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BULB FLOWERS.

W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all Bulb Flowers at Market Rates, all season through.

CARNATIONS.

Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
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F. R. Pierson Co.
Tarrytown, N. Y.
Variegated Lawson, White Lawson, Daheim, Fiancee, Cardinal, Fred Burki, Victory, and all standard varieties.
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S. S. Pennock,
Rooted Cuttings and Pot-Grown Stock.
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Robert Craig, Lieut. Peary, Ethel Ward, The President, White Lawson, and all standard varieties. Rooted Cuttings.
Cottage Gardens Co., Inc.,
Queens, N. Y.
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Patten & Co.,
Tewksbury, Mass.
Rooted Cuttings of all choice varieties.

Rooted Carnation Cuttings
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Rooted Cuttings, best varieties.
J. A. Budlong,
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Rooted Carnation Cuttings.
White Lawson, Flamingo.
C. E. Dickerman,
Ashland St., cor. Mill,
Dorchester, Mass.
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Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
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Red Lawson, $10 per 100; $75 per 1000. W. J. Palmer & Son, Lancaster, N. Y.
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Nathan Smith & Son,
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Chicago White, Fred Burki, Fiancee, Phyllis, Cardinal, Red Lawson, and Richmond Gem.
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Prize Winning Novelties.

H. A. Stevens Co., Dedham, Mass.
Rooted Carnations from Flowering Stems only.
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GRAPE VINES, HOTHOUSE.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Strong Planting Canes, all best sorts, each $3.50.
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GREENHOUSE BUILDERS AND MATERIAL.

Lord & Burnham Co., Irvington-on-Hndson, N. Y.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
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Hitchings & Co., 233 Mercer St., New York, N. Y.
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John C. Moninger Co.,
111-125 Blackhawk St., Chicago.
Hotbed sash and construction lumber.
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Adam Schillo Lumber Co.,
Weed & Hawthorne Aves., Chicago.
Hemlock, pine and pecky cypress. Cedar posts

HARDY FERNS AND SUPPLIES.

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HARDY HERBACEOUS PLANTS.

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Pierson Sefton Co., West Side Ave., Jersey City, N. J.
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Hitchings & Co., 233 Mercer St., New York.
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Kroeschell Bros. Co., 47 Erie St., Chicago.
Manufacturers of the Kroeschell Boiler, the Great Fuel Saver.

HOE, SPRING TOOTH.

E. H. Hitchcock,
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IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
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R. M. Ward & Co., New York. Plants and Bulbs.
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JAPANESE PLANTS.

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LILIES.

Plants and Cut Blooms. Hinode Florist Co., 5th St.
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LILY BULBS.

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LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
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NICOTIANA SANDERÆ.

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Vaughan's Seed Store,
Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $ 50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

ORCHID PLANTS.

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Julius Roehrs,
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PATENTS.

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A. Leuthy & Co., Roslindale, Mass.
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Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.

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Kaiserin Roses. Robert C. Pye, Nyack, N. Y.
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M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
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Rose Plants. Write for prices on Hbyrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
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All the best varieties.
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John Scott,
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Brooklyn, N. Y.
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George C. Watson, Juniper & Locust Sts., Philadelphia, Pa.

Arthur T. Boddington, 342 W. 14th St., New York
Gloxinias, Tuberous Begonias, etc.
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SHEEP MANURE.

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STEAM TRAP.

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SOUTHERN SMILAX.

E. A. Beaven,
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McMorran & Co., Chicago.
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Pierson-Sefton Co., West Side Av., Jersey City, N. J.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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WHITE VIOLETS.

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Philadelphia.
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Metropolitan Park District of Rhode Island

A movement has begun looking to the formation of a Metropolitan Park District of Rhode Island, including Providence and the surrounding towns.

* * *

The territory proposed to be included in this Metropolitan Park District is a parallelogram in shape, its longest side running north and south about eleven miles, the width of the District being about seven miles, including about 50,000 acres of one-fourteenth of the total land area of the state. As large a proportion as this is of the State's area, yet when compared with the twenty-four other cities of the United States containing over 150,000 population, we find that seven cities are greater in area than this entire district, New York being four times its size and New Orleans and Chicago two and one-half times its size, while Philadelphia and San Francisco are fifty per cent larger.

The total population of this Metropolitan Park District of Providence is over 300,000, which, if united in one city, would make Providence the fourteenth city in population in the United States; but in place of being united, there are ten municipalities within the District, each independent of the others, and that, too, a New England independence which is self-centered and jealous of its neighbors. The time has come when these imaginary barriers should disappear, not only on account of the park interest, but also for the general interests of the people, for the functions of a city have so multiplied and increased and the necessity of a comprehensive sanitary arrangement of sewers, water, streets, parks, lighting and equalization of taxation, should tend to make this territory not only a Metropolitan Park District, but an unit, and to become in fact, as well as in name, Greater Providence.

* * *

This Metropolitan District has many great advantages. First, there is the unsurpassed Narragansett Bay, which in the form of the harbor, reaches the heart of the city. Then, there are nine rivers and twenty lakes, with their main valleys and secondary valleys and springs and rivulets within its borders, which for centuries have been carving and moulding their lands into forms of great beauty and attractiveness for men, to welcome the coming of man and to give him hope. And the hills which rise in long slopes, while not precipitous, are high and bold for shores of an inland bay, being from two to five hundred feet above the waters encircling their feet. The slopes on these hills are at places very abrupt, with ledges cropping out and great boulders rendering the scene most picturesque. While there are but few large, broad meadows, yet there are many most delightful little valleys and glens. Many of these hills and valleys are well wooded. Few lots of large trees are still standing. Altogether a most interesting, beautiful, and picturesque country for the installation of a park system.

* * *

The scheme as outlined by those interested is to take a half dozen of the hills on the west and make of their summits and slopes, parks and reservations. Those selected have most interesting and ever-varying outlooks. Another part of the proposition is to include the ponds with their shores, and the streams with their banks, wherever not needed for manufacturing purposes, with several points and stretch of shore on Narragansett Bay; and at all the different places, to take sufficient lands, which, with the waterscapes and the outlooks, to make commodious grounds and scenic effects, all to be connected by a system of boulevards and parkways twenty-four miles in length. A most generous scheme and a bold conception, although much of the detail of the work has been but partially brought forward.

It is said that the gods differ from us mortals by being never behind time, never ahead of time, but always on time, and it would seem as if the gods were favoring Providence, for Providence has grown throughout this whole territory, settling her people here and there by the waterways as opportunity was needed to use its power for making things, and yet where not needed, she has kept place after place in much of their pristine beauty. While her hills have been mostly stripped of their great tree growth, yet she has clothed them with a secondary growth that promises to renew their glory, and what is more, she has kept people from settling on them. So well has the Goddess Fortune preserved the good things in store for Providence, hiding them, as it were, from the people that they might not destroy them, and what will appeal to the thrifty Rhode Islander, keeping the money value of these lands so low that now in the installation of this magnificent system of parks and boulevards, the promoters state that not over one hundred acres of high cost land is involved and less than that number of buildings, all of low price, are included. Truly, where has there ever been another city so fortunate? But the time has come when all this must change, or rather, is even now changing, for there began, several years ago, a movement among the people towards these lands, and their beauty and desirableness are becoming known and appreciated, and this must result not only in their value increasing, but that they will be taken for private use. Surely, now is Providence's opportunity, for she can now make such a selection for her public lands as will make available and bring into the market a large amount of the most desirable residential property, which will not only increase her population, but will also so increase her assessed valuation, that the taxes received for the increase which the parks and boulevards will create will, in the end, entirely pay for the cost of lands and construction, and also pay for the annual cost of maintenance. Therefore, in point of fact, Providence has only to lend her credit, for the scheme may be made to become self-constructive, and self-supporting. This is the experience in other cities, for parks if properly located and managed, have lessened taxation by increasing valuation, so that considered from the financial side alone, they have been profitable. They may become as profitable and self-sustaining as the waterworks; in fact, any city function which does not in the end become self-sustaining and profitable, is either not needed or is mismanaged, and parks are no exception to this law, although the working out of this law relating to parks is more intricate and indirect than with waterworks and gas plants. Yet it is nevertheless certain and true. The profit of parks may be as indirect as raising taxes by revenue. We may not give thought to either, but a careful analysis shows they exist. Providence is indeed fortunate in her opportunities and in the timeliness of this movement,

Now as Providence seems about to leave the foot and go to the head of her class, what are the lessons for her sister cities? * * * She claims beautiful meadows and valleys, picturesque glens and slopes, cozy nooks and delightful, shady wood scenes. She has all these. * * * She claims tidy streets and brilliant and decorative lighting of them, and a general thrift and tidiness in her housekeeping. While many of her sisters are good housekeepers, yet Providence would probably take the first rank here. If she should claim great natural gifts and that she has made good use of them, the judges, I fear, would shake their heads and say, "No, no." "You as well as every one of your sister cities have had their special gifts and great opportunities. Some of them may have neglected theirs more than you have yours, but all have neglected them so sadly that we must pass them by and give none of you the rank, for every one of you have shown a great and wasteful neglect of your natural gifts."

Items of Park News.

Forest Planting for Profit

Mr. Theodore F. Borst, consulting forest engineer of Boston, was the speaker before the Massachusetts Horticultural Society on January 21. The subject of "Forest Planting for Profit in Massachusetts" was fully treated. The many excellent stereopticon views used made this important subject interesting and readily intelligible. After briefly referring to the importance of forests and how indiscriminate cutting of the past has made it impossible for nature to much longer supply our needs, Mr. Borst at once took up his problem to show where forests should be planted, how seedling trees are raised in a nursery, how a young forest is properly planted and how a plantation should be tended for profitable returns. Good profits from forest culture were shown.

It is a matter of common knowledge that prices of all forest products, especially wood of the better kinds, has been very rapidly rising, and as these advanced prices are occasioned by a scarcity of desirable timber there is no reason to believe that prices will ever be lower; in fact, everything points toward much higher prices in the future. Just two weeks ago the President of the United States, through an address before the American Forest Congress held at Washington, called the attention of the American people to the grave problems now confronting us by the rapid destruction of our forests. These forests were once thought inexhaustible, but at this congress, as never before, the leading interests depending upon forest products, namely: the lumbermen, the railroads, the mining interests, paper manufacturers, the box and cooperage manufacturers, the furniture manufacturers and all woodworkers and users in general, did, through able representatives of their various interests, cry aloud their needs for wood materials. The area formerly covered with valuable timber has been much reduced, and the regrowth now taking place on other lands is upon culls left standing in the lumbering of the past. As nature will no longer supply our demands we must by artificial means stimulate and direct nature's forces in timber production.

There are many thousands of acres of land in Massachusetts that are absolutely waste. Much of this land is either unfit or unnecessary for agricultural purposes. Everywhere we note abandoned, brushy, wornout pastures, impoverished ploughland, deforested tops of ridges, steep, rocky hillsides, poor, loose, sandy soil, odd corners too expensive to plough and cultivate; yet many of these waste lands could at small expense be made to yield valuable timber crops. Mr. Borst showed a series of views of such deforested lands, burned over areas, etc., both from the surface and sectional cuts. These pictures made clear what poor lands, white pine and other valuable trees can thrive on. In discussing how many trees to plant, the size of plants to use and the spacing between the trees, it was shown how very dependent the answer to these questions is on the nature of the land to be forested. It was shown that upon areas where more or less voluntary tree growth exists the supplementary planting necessary to fill the open places was very quickly and cheaply done, sometimes costing as low as four or five dollars per acre, using white pine trees for this purpose. Where the entire area must be planted the trees are set about 5×5 feet apart, requiring 1743 trees per acre, and may cost from seven to fifteen dollars per acre. The size of plans needed determines much the cost of the plantation. The size needed is very dependent upon soil conditions and the nature of growth covering the land. Brushy, blueberry and sweet fern land require, for instance, the use of three-year-old transplanted stock, while open, exhausted pasture lands can frequently be planted with two-year-old seedlings. Where conditions permit the use of chestnuts, acorns or hickory nuts, the cost of planting per acre may be only two or three dollars. Some 18,000 acres of waste land have already been artificially forested in this State. A few of such areas have recently been lumbered at a net profit of over 6 per cent on the entire investment. If the planting which was done forty, fifty and sixty years ago has proved profitable, certainly the planting we would do to-day which would come into the market forty, fifty and sixty years hence must prove even more profitable; especially when there is every indication that timber prices will double or perhaps treble themselves before that time.

It was illustrated at length how tree seeds are collected, how a sandy loam soil is selected for a nursery and how the same is laid out, ploughed, harrowed, etc., for raising young trees. The seeds are soaked in warm water, poisoned for preventing mice from eating them and then are carefully sown in drills in a nursery bed. Careful tending is necessary until the seeds germinate and are one year old. The seedlings remain in seed beds two years. They are then about six inches high and may be set directly into the field, or if larger, more stock plants are needed, the seedlings are transplanted into nursery rows where they may remain one or two years longer. Views were shown illustrating how the seedlings are taken up, transported to the land to be planted, and how the men plant the same. Each two men of a crew work together, one man making the holes while the second man sets the trees. The details of how to properly and quickly set these trees were shown. Mr. Borst states that by his method each man employed in the planting will set more than 700 trees in nine hours. One crew of sixteen men and a foreman have set considerably more than 16,000 trees in nine hours. Under fair conditions, using two-year-old seedlings, two men working together will plant from three-quarters to one acre a day. Great care is necessary to obtain good stock, as frequently poor trees are delivered and the planting is correspondingly disappointing. One difficulty in the way of the general tree planting is that proper trees for forest planting are not readily obtainable at sufficiently low prices. For small plantings it may be advisable to transplant small seedlings, say from six to twelve inches high from open pastures, but usually for plantations larger than five or six acres, the additional cost for labor, etc., necessary to collect and plant such stock is not compensated for. Also the success of such planting is often not encouraging. Mr. Borst carried his audience through the various stages in the development of a planted grove, and showed that there is no essential difference in the planted forest and one sown by nature. The foresters' artificial method of planting is necessary when the seed trees have been destroyed or when the area has not been completely reclothed. It is often cheaper and more satisfactory to plant a forest than to depend on nature's sowing. White pine, chestnut, hickory, ash, oak, maple and tamarack are among the best trees for planting in Massachusetts, but under some circumstances other trees might be preferable. Mr. Borst has during the past four years made plans for and supervised the planting of considerably over one million trees in Massachusetts, and many more trees are now being grown in nurseries for forest plantations. This year seedlings can be furnished cheaper than ever before. Data from actual experience was presented to show the cost of reforesting lands of different types, and several planting plans were discussed. If the planting is done on sufficiently large scale, say 25, 50 or 100 acres, the cost of planting including the young trees may be from five to fifteen dollars per acre. Ten dollars per acre has frequently been the cost for white pine planting. The proper age and the manner in which to prune and thin a forest was shown. If a stand is thinned too early or thinned too severely much injury can be done, as the trees will thereby become low crowned and produce knotty timber; and over-thinning also endangers a crop to windfall. It was shown that a mature white pine stand can be lumbered, and at the same time the ground be naturally reset with young pines. Tables were shown giving the volume of timber produced by white pine per acre in this State, and also data from European planted white pine forests. Uncared for white pine forests in Massachusetts may produce in sixty years about 30,000 feet of timber, B. M., while under forestry treatment the European figures show that 50,000 feet can readily be produced on one acre during the same period of time. White pine plantations have been figured to yield a net annual return of $1.15 per acre paid at the expiration of forty years in addition to 4 per cent compound interest on the money invested. Under a different calculation, using all costs, it is estimated a return of about $2.25 per acre per year for forty years from the time of planting to the time of cutting is obtainable. This estimate is corroborated by actual experience. These returns are certainly very satisfactory, considering the fact that it is secured from land which is almost useless for any other purpose, and which, without a timber crop, would be a source of constant expense in taxes. A timber crop not only gives a return on the money invested, but it makes productive the capital locked up in the land. These returns are figured on the yield obtainable without pruning, thining, etc. If forestry treatment is given the returns should be higher. Again, these profits are figured on prices of stumpage prevailing to-day. The future profits will be higher in proportion to the advance in stumpage values.

Timber culture for profit is strongly commended to landowners, especially where lands are being held that are producing no returns whatever. One great advantage of tree culture is that the farmer and his regular labor can be readily taught to do the work and that very little attention save protection is needed after the crop is once started.

Mr. Borst's address was well calculated to demonstrate the entire practicability of forest culture for profit.

Greenhouses Building or Projected

WEST MILAN, N. Y. — C. Williams, violet house.

HANOVER, MASS. — Geo. F. Sylvester, plant house.

PHILADELPHIA, PA. — E. R. Martin & Co., 2614 Columbia Ave., greenhouse, 17 × 70.

FRENCH LICK SPRINGS, IND. —French Lick Springs Hotel Co., two houses, 20 × 100.

There are reasons for believing that the State of Rhode Island will appropriate fifteen thousand dollars for a greenhouse for the use of the Agricultural College at Kingston.

Reported by J. C. Moninger Co.

DECATUR, ILL. — Mrs. Dant, house 20 × 80.

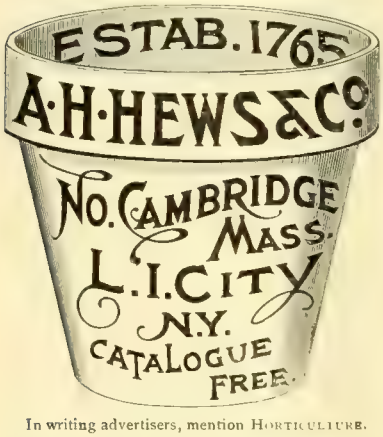
BENSONVILLE, ILL. — W. F. Dunterman, house 20 × 90.

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Will "A" kindly write or call at this office.

WANTED — Grower: charge three greenhouses, cemetery, roses, carnations, beddingstock; twenty five month and board. G. E. R., Care Watsons,
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$50.00 per month; five greenhouses, 9000 square feet of glass, 9½ acres of good ground, house and barn, long lease. $1000 cash for stock, etc. Near Chicago.
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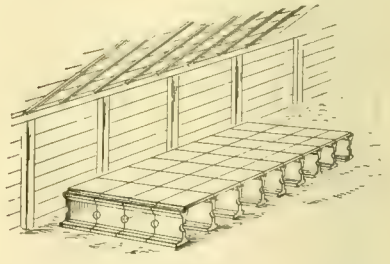
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780,609, Cultivator Attachment. William Hoffert, Arlington, Ill.

780,627, Horticultural Apparatus. Jacob Umbehend, Cambridge, Mass.

780,708, Fertilizer-Distributer. John J. A. Collins, Doyline, La.

780,774, Tile Bench for Greenhouses.



GREENHOUSE BENCH

Warwick G. Bate, East Cleveland, O.

780,928, Spraying Mechanism. William T. Yard, Trenton, N. J.

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781,269, Garden-Hoe. Henry M. Cosey, Sterling, Ill.

781,346, Transplanting Implement Rudolph D. Kline, Streator, Ill.

781,414, Flower-Holder. Edwin G. Garnsey, Lagrange, Ill.

781,552, Tree Rack or Holder. Rudolph A. Riek, Fond du Lac, Wis.

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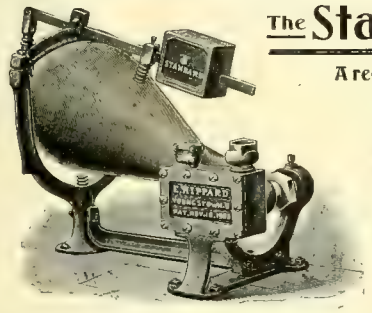
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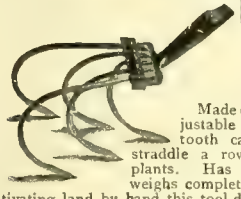
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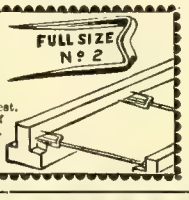
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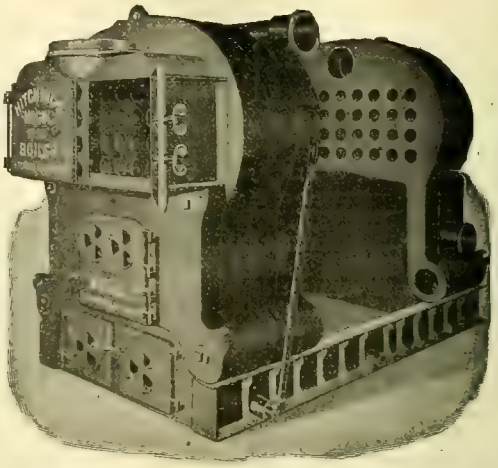


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HORTICULTURE

Vol. I FEBRUARY 18, 1905 No. 12



View in Converse Conservatory, Malden, Mass.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

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HORTICULTURE

VOL. I | FEBRUARY 18, 1905 | NO. 12

PUBLISHED WEEKLY BY

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11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

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Nelson	2 00	15 00
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Queen Louise	2 00	15 00
Boston Market	2 50	20 00
Marion	2 00	15 00
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50 of a kind at 100 rate; 250 of a kind at 1000 rate.

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ON HORTICULTURE'S ADVICE

Gesnerias

Gesnerias are among the oldest of decorative plants for stove, greenhouse, or table decoration, and are indispensable where a general collection of flowering plants are in demand. The order includes Achimenes, Gloxinia, Streptocarpus, Tydæa, Isoloma, Saintpaulia, etc., all of which have been greatly improved of late by hybridization, rendering them far more valuable and useful for the gardener and florist.

The newest hybrids of gesnerias are remarkable for their abundance of bloom and continuous succession in which the flowers are produced for about four months in the fall and early winter months. They may also be had in perfection for a longer period by starting successional batches from March until midsummer, but I prefer having one good batch of from one hundred to one hundred and fifty plants in 5-inch and 6-inch pots. This gives a beautiful display, uninterrupted by other members of the genera, embracing many shades of color, including pure white, white with yellow throat, yellow in several shades, apricot to rose and rose pink, scarlet to dark red and crimson — some self-colored, others again spotted like the tydæas. As to their floriferousness some have single spikes with abundance of pentstemon-like flowers, others again producing three to five spikes and similarly loaded with their showy flowers which are unusually persistent.



Apart from their good flowering qualities they are of great value and service as decorative foliage plants. The leaves are opposite, cordate-ovate, of several shades of color, from light to dark green, often beautifully mottled with lighter colors, others dull purplish, with light shadings, others again a cinnabar red, all of which are covered with minute hairs of similar colors having the appearance of velvet or plush.

On well-grown specimens the leaves are from six to eight inches over, the flower spikes attaining a height of from ten inches to two feet. The scaly tubers are not as readily obtainable as seed, but the latter if sown in April or May will produce fine flowering plants next fall or early winter. Where tubers are obtainable they should be started in May or earlier if desired for summer flowering.

The same treatment given gloxinias will suit gesnerias but, if they are not brought into flower before October, they will last much longer and produce a mass of flowers when bright colors are most desirable. The most important point in their culture is watering; they delight in a moist atmosphere and standing on a moist bench, but water from the syringe or hose is fatal to their well-being, as the leaves will soon get disfigured if water is splashed on them. Water in nearly all cases contains lime, and as evaporation takes place a sediment is left which is very injurious. Do not expose to bright sunshine or allow the plants to become dry at the roots. After growth is complete and the flowers appear, a temperature of 65° or 60° will contribute to their lasting quality.

Thrips and mealy bug must be guarded against, but if the house is clean when the plants are started they are easily managed. Started either from seed or tubers they are perfectly clean, unlike other plants started from cuttings.



Echoes from England

FRENCH FLOWERS AND FROST

We get most of our early spring flowers from the French Riviera, in the neighborhood of Nice, Cannes, and Grasse. The supply has lately been very limited, however, owing to a severe frost which has done serious damage in the gardens of the South of France. Consequently prices have advanced considerably and it is to be hoped that the home growers will reap an advantage. Writing from Nice, a correspondent who has spent many winters there says: "The very severe frost that descended from the mountains and devastated the Riviera gardens was more sudden and unexpected than any I can remember. January dawned bright and pleasant and the cool air gave no warning of anything unusual. At midday a bitterly cold wind set in and in spite of the bright sun, the temperature fell rapidly. At noon the thermometer stood at 46° Fah., at 5 P.M. at 29°, and the next morning was as low as 20°. A most intense

sun increased the mischief to the frozen plants, while the two following nights completed it. The wreck of flowers on this coast is deplorable everywhere."

Owing to this disastrous state of affairs on the Riviera, roses are very scarce and they are difficult to procure except when specially ordered. The Mimosa seems to be the only French flower that continues to arrive in quantity.

AMERICAN CARNATIONS IN ENGLAND

It is surprising how the American varieties of the tree carnation have become popular in this country during the past few years. They are now largely grown for market, and the flowers, which are rendered additionally valuable by reason of their long stems, command good prices. Such sorts as Mrs. Lawson, Floriana, Enchantress, Fair Maid, G. H. Crane, Royalty, and others are chiefly grown. In Covent Garden, ordinary winter flowering sorts are making 18 to 30 shillings per dozen bunches, whereas the flowers of the best American varieties are selling at 3s. 6d. to 6s. per dozen blooms. They lack one quality, namely, that of fragrance; in vigor of growth, rich coloring, and general usefulness however, they are all that could be desired. This is proved by the fact that they have taken the public fancy, and the West End florists' shops expose them in large quantities. On account of their long and strong stems they are invaluable for making into bouquets and other floral devices.

COTONEASTER PANNOSA

Although this Cotoneaster does not compare with the new Cotoneaster angustifolia that I mentioned recently, for beauty, it is nevertheless an elegant plant, and one that has its value as a winter-berried shrub. It is not new, but it had not been exhibited before the Royal Horticultural Society until their last meeting on January 24. It was then shown by Messrs. James Veitch and Sons, Ltd., Chelsea, and received an award of merit. The berries, which are produced almost the whole length of the long slender shoots, are of scarlet coloring, about the size of those of the white thorn, — they are arranged in axillary clusters. Although it does not promise to be so vigorous, judging from the plant shown, as some of the Cotoneasters that make our shrubberies so bright during winter, it is as pretty and as elegant as any of them. It was introduced from the province of Yunnan in China.

A VALUABLE SOUTH AFRICAN PLANT

Among various useful greenhouse plants introduced in recent years, one from South Africa called Moschosma riparium has come to the front a good deal lately. It forms a splendid companion to the blue flowered Coleus (C. thrysoideus). When out of flower it resembles a green leaved Coleus or a Salvia. The leaves are about two inches long and roundly ovate, the margins being deeply toothed. The flowers are small and white, with purple anthers and are borne in large, elegant terminal racemes often two feet or three feet long. The flowering period commences in early December and continues until the middle of February, so it has proved to be one of the most useful winter blooming plants we have for the warm greenhouse. Although naturally a perennial, it is best treated as an annual, growing it each year from cuttings. To do this, the plants after flowering are put in a warm, moist house to start into growth. When the shoots are three inches long, they may be taken off and inserted as cuttings. It is a plant well worth bringing to your notice.

SPECIAL SOCIETIES

We have all sorts of special societies in this country, the Chrysanthemum, Dahlia, Rose, Carnation, Sweet Pea, Potato, and others, so you may know that the interests of these particular plants are well looked after. The Sweet Pea and the Potato are the youngest, and both of them have just published very satisfactory reports. At a meeting of the National Chrysanthemum Society to be held on February 6, the report to be presented states: "It gives your committee satisfaction to report that the society still maintains a foremost position among the special societies having for their object the culture of some particular flower. The Chrysanthemum, especially as represented by the large exhibition of Japanese varieties, continues as popular as ever, while the growth in the commercial value of the flower as a market and decorative subject has been highly satisfactory."

Harry H. Thomas

In planning your advertising for the coming year, remember that HORTICULTURE proposes to work overtime the season through to prove itself the best medium in the country.

South American Horticulture

I — SANTOS

Looking at the orchids from the street, through the windows of fashionable stores of city florists, very few, I suppose, realize at the moment that the plants they see are imported wild plants, not uncommon sights in their native woods, each being one of many species of parasites which cover decaying trunks, dead limbs, or thick-barked and moss-grown trees in South American woodlands, from whence most of our orchids come. An every-day plant is the orchid in its native land, at which you will turn to look once or twice, but later will often pass, taking no more notice of it than you would of a bunch of pretty ivy or of honeysuckle climbing on a North American elm or maple. Around the homes of South American people, on the piazzas or the walls of the backyards in the city, the orchids hang on pieces of wood much as our geraniums live on shelves and in the windows in our (northern) homes, from San Francisco to New York, and Berlin. It is, like the geranium, the house-plant of tropical countries, which grows anyway, flowers again and again in a dozen and more different colors and shapes — and looks ugly the rest of the time.

A year ago, in the latter part of January, I boarded a coast-steamer of the Lloyd Braziliero Line, bound from Desterro to Santos, the greatest harbor and market on the globe for that every-day tropical beverage — coffee. Where this plant has been cultivated in South America and especially in Brazil, the old settlements of the Portuguese are most numerous, money is more plentiful, and modern Brazilian civilization is more advanced. It is there, where you find tropical flori- and horti- culture in its first state, and although in its own original infancy, yet with a promise, I presume, of a grand, splendid, and fanciful future.

In the central tropical countries, under the straight rays of the equatorial sun, the jungle of woods, the swamp, the valley, and the palm-covered hill are all steaming in one almost continuous hot boiler-room temperature, in which all higher aspirations of art are smothered to a general indifference. And it seems that precisely in the same manner, sometimes, writings on tropical vegetation or nature in the hot tropics of Africa or equatorial America give one at last a weary sensation of impenetrable masses of green foliage, slow, warm streams and big puddles.

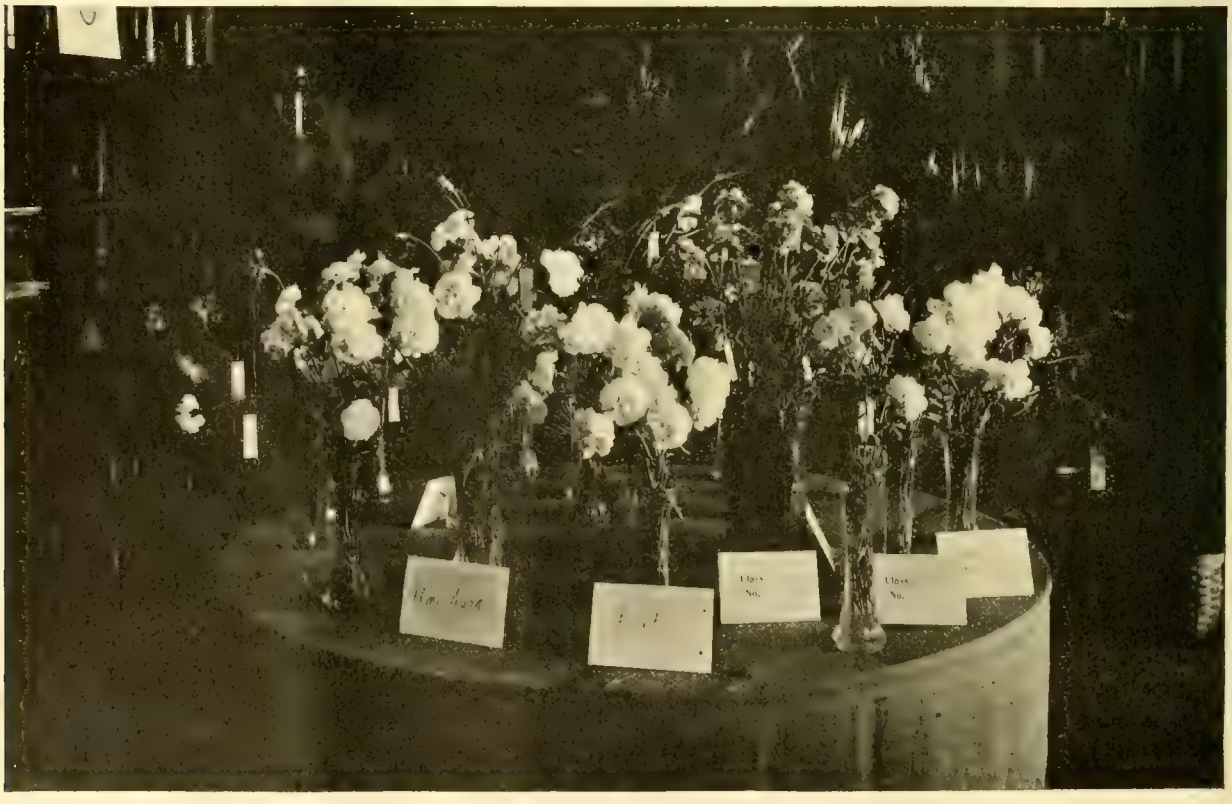
This seems so because civilization has not made any effort to bring order and culture into the surrounding natural objects, and a writer has really little to describe of human interest in common. It is all wild nature of immense power, with which human efforts are in vain, and the parts of the earth, which have as yet escaped man's progressive march in subjecting the earth to him, followed since Adam's times.

Not so is it in farther northern and southern parts of the tropics and in the sub-tropics. In these latter countries we can see fine tropical flori- and horti-culture in well-kept gardens on artistic avenues, with grand natural scenery as background, and here, as well, we can enjoy it. The effect is as wonderful in reality as it was in the imaginations of our boyhood days when plunging into one of Walter Scott's marvelous tales of the Orient with its grand natural treasures and beauties. You have then the delights of your boyish expectations realized, when you read of Pizarro, Cortez, or the discoverer of Brazil, Cabrâl. You are beholding practically the same thrilling wonders of nature, only much more elaborated by divers human cultural achievements, such as the building of a city with its suburbs, as when you are out on the beach of Santos, along the sands of whose shore stand the mansions of the old families of European coffee merchants and Portuguese business men. The massive square buildings show their upper stories and roofs behind thick stone walls clad with vines of all natures, of all countries, in garlands hundreds of yards long, of ivy, clematis of different species — paniculata, Jackmanii, and others, of Jasmines and of Maréchal Niel roses. All these vines are overgrown again by big-leafed and grotesque flowering tropical vines. Inside the walls, elegant palms forty to sixty feet high decorate the boundary line of these seats of modern Latin civilization and refined southern culture. On the gates, generally clumps of Areca palms are planted as corner pieces, perhaps next to some beds of bushy chrysanthemums, running along the main walk to the house, three feet high and loaded with small (not over three inches in diameter), but choice flowers in very distinct and bright colors. If you are fortunate enough to get acquaintance with the gardener inside the monastic enclosure, you will be pleasantly surprised with the general brightness of hundred fold dyed flowers and plant. The designs are somewhat stiff in arrangement, as if the design of old imperial coats of arms was to be imitated in carpet-bedding, yet always as brilliant in the sunshine as fire and flames in the rainbow. There you will find alternantheras with colors wholly unsuspected from your experience with them, the colors varying from the bright carnation scarlet to purple, brown, and yellow. By Brazilian tradesmen, and in the general street language, they are called "perequetos," which is the word for parrots. Coleus are standing out like burning shrubs, three feet high between dark green tree-ferns of all sorts; but among all, it's the crotons with their multi-colored small, or broad-leafed sword-like foliage, some twisted around and around like a corkscrew, that will make the show. Some good planting is done with crotons, coleus, and ferns, and they will make you stop quickly enough and let you know that there are "other people on the rolling beach of the Atlantic Ocean." Among the border

plants you can admire very fine species of Cocos Weddelliana, four feet high; big tree-ferns, standard roses, hibiscus of over man's height, and grand snow-white camelias.

The houses are as if with all doors and no windows, being open from the floor to the ceiling on all four sides, on a warm day in January or other midsummer months. You may walk inside at most any point of the broad stone or wooden piazza, which surrounds the building proper, enjoying the same privilege as the dolls in the schoolgirls' dollhouse. There are no walls in front to obstruct the view of the grand carpet designs of the terrace garden. The somewhat formal arrangement of the many colored beds is diversified by the taller plants on the borders, and by some clumps of picturesque bamboo or big phœnix palms. The green foliage and the flowers are all around you, as if nature stretched her arms into the very rooms of the inhabitants. Covered walks, built out of natural wood on which hundreds of orchids grow under the shade of climbing red and white roses, lead along some side of the garden wall to the invariable spot of outlook in the Brazilian home grounds. This is an embankment on a corner point mostly against the enclosing wall within two feet from the top, so that you can peep over it at convenience and look right and left on the sidewalk to see what is doing on the street, or who may be coming. Here on the Santos beach you are seated on a cool, low stone seat on one of these outlooks and view the breaking beach and the narrow channel into the ocean, where incoming steamers are first sighted, surrounded by high, picturesque, zig-zag, mountainous shores with big lumps of red, rough rocks in front looming up high out of foaming waves. Over all hangs a clear blue sky and soft and warm winds swing from among the palms on the mountain side across the beach to where you are watching. It has the same effect as did the breeze in Lombardy, which sapped the strong blood of the Germanic conquerors of Italy. You reach heroically for a strong, black Brazilian cigarette to strengthen your nerves, and solve the problem of the morality of a cup of genuine coffee, made of a gallon of water to two pounds of coffee, as the coffee-restaurant mistress of the beach-house will confidentially tell you, after you have become a regular guest. Take a last look, before boarding the car to the city, and it all seems like a mighty palm-house under a mighty blue glass sky. A wonderful forest of palms, oleos, tree-ferns and giant bamboo bouquets are decorating immense shelves of mountains along the shore, among which lie the estates of wealthy Santos merchants.

Gerhard Bleicken.



C. W. WARD'S TABLE OF SEEDLINGS AT CHICAGO SHOW

Poinsettia (Euphorbia pulcherrima)



Perhaps enough has already been written concerning this most popular and useful plant, but it is said that one never tires of a "good thing," so these few notes may not be amiss.

As set forth by our plant historians and botanists *E. pulcherrima* was discovered in the early part of the 18th century by an unknown traveler. Nothing came of his discovery, however, as the plant was not distributed until many years later when a Mr. Poinsette of Charleston, S. C., rediscovered it while traveling in tropical Mexico. Early recognizing the value of his discovery he communicated with Robert Buist, at that time one of the most famous plantsmen in America, offering to sell the entire stock. Buist accepted the offer and immediately began to increase the number of plants. In a few years the stock was widely distributed and in the early seventies the so-called double varieties were introduced. Var. plenissima (Gardener's Chronicle, III., 5:17) has a double series of bracts with a larger head than the type. A single form known as Var. bracteata alba is now under cultivation at the Missouri Botanical Garden. The bracts are small, yellowish or dirty white in color. Probably of little value to the trade.

The plant has certain medicinal properties that are infrequently utilized in practice. Instances have been reported of persons being poisoned while handling the plants especially when contact was had with the sap. (Garden and Forest, IV., 104). In Mexico it is commonly designated "Flor de Nache Buena" or "Flower of Christmas Eve."

CULTURAL NOTES

The following cultural notes were supplied by Mr. August Koch, a gardener at the Missouri Botanical Garden. — The cultivation of poinsettias is not especially difficult if the grower uses a little care. When the plants are through flowering I set them aside and gradually withhold water until they are quite dry. As soon as the foliage has fallen, which occurs when the water is withheld I cut back the stems to within eighteen inches of the pots. This much is left in order to secure sufficient wood for cuttings later on. The plants are left in a dormant condition until it is desired to start them in the spring. I usually set them out of doors in a sunny situation about the middle of May and water thoroughly. The young growths appear soon after and when about three inches long are ready for the cutting bench. Cut close to the stem, with a heel. Place them in clean sand in an air-tight case, and water thoroughly. Shade is then given as sunlight must be kept from the tender cuttings. Bottom heat is not necessary, but the temperature should be from 75° to 80°. After three or four days a little ventilation is given, otherwise the cuttings are liable to rot. In about three weeks the cuttings should be well rooted. I have had as high as 98 per cent strike roots — never less than 93 per cent.

The first potting should be in a soil that is not too heavy. A mixture of ¾ sod soil and ¼ fertilizer is very good. As soon as the pots are filled with roots the plants are shifted until the size desired is attained. Plants in 6-in. pots and dwarfed plants in pans are conveniently handled. It is very necessary to feed the plants, which may be done by using liquid cow manure, bone meal, or by top dressing with cow manure. The fertilizers are given after the plants are shifted the last time, and then not until the roots have filled the pots.

CUT BLOOMS

It is said that the bracts will last a long time if the cut parts are steeped in boiling water as soon as cut. This prevents the loss of sap that takes place when the stem is cut. Searing the cut with a hot iron has also been employed but is more inconvenient. (Orpet, Garden and Forest.)

F. K. Balthis

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HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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HORTICULTURE PUBLISHING CO.

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Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Carnation Victory has again demonstrated its superiority in the Boston estimation. And Boston's conservatism in such matters makes the indorsement all the more significant.

A Catholic clergyman in Waltham, Mass., has created a commotion among the local florists by prohibiting the use of flowers at funerals. It goes without saying that his efforts will be fruitless. But it is just possible that the universal abandonment of the practice of displaying flowers at funerals might ultimately benefit the florists' industry.

The proposed law now before the Massachusetts legislature for the abatement of the moth nuisance is founded on the principle that every individual shall be held responsible for conditions existing on his property and insists that he shall do his duty towards his neighbors by keeping his premises clear of the nuisance. This seems just and reasonable. Put it through.

Offering premiums to the school children for collecting brown-tail moth nests, as practiced in some New England towns, is unquestionably a very practical method of getting the work done. There is, however, one serious drawback. The browntail has a habit of locating its nest at the outermost tip of the highest branch. We hope the boys' enthusiasm and industry will not result in any broken necks.

The agitation among the rural folk against the State appropriation for Amherst Agricultural College seems a "tempest in a tea-pot." To impartial observers it appears that the benefits conferred upon the farming interests by such institutions as the Agricultural College far outweigh any possible injury resulting from the sale of a few vegetables or flowers by the institution. The college authorities are not at all likely to intentionally do harm to the tillers of the soil. Get together, gentlemen, and fix it up amicably among yourselves.

There is of late some discussion in German horticultural papers about lily-of-the-valley forcing, and several first-class growers have given their experiences, contending that if the pips are put overnight in warm water — perhaps in barrels near the boilers or on steam pipes — before being planted in the benches, they force about five days quicker than those not so treated, and produce better developed flowers. We think there would be no risk to our growers in trying this method and comparing the results with pips put in at the same time and treated in the usual way. We shall be pleased to publish the results of any experiments along these lines.

Reports from the various departments of horticultural activity indicate an already lively movement in the seed trade and a probability of unprecedented business in ornamental nursery stock and herbaceous perennials for the coming season. On the other hand the cut flower situation seems to be a bit disappointing both in the size of the product and the extent of the demand. Now is the time, recognized as the height of the fashionable season, when flowers should find their most profitable market. The season is longer than the average, however, on account of a late Easter and there is yet time for an old-fashioned spurt. We hope the flower people will get it and make good use of it. The plant-growing specialist has straight sailing until Easter, with prospects encouraging as usual.

The fusion of the flower-market trade exhibition with that of the Massachusetts Horticultural Society, as described in our news notes, seems to proclaim the beginning of a new era in Boston horticulture. Whatever the causes may have been, it is true that, for many years, commercial floricultural interests and this great society have seemed to pursue divergent paths, and the progress of the one and the influence of the other have thus been woefully retarded. For some time past, the tendency towards coöperation has been unmistakable and it now discloses a future full of promise. The unanimity of sentiment so rapidly maturing brings to the society the enthusiastic support of an element peculiarly robust and virile and assures to the horticulturists, not only of this section, but the entire country, the inestimable advantages that are inseparable from well-directed organization.

"Is there room for another paper?" inquired the timorous one.

HORTICULTURE is demonstrating the truth of the old saying that "*There's always room at the top.*"

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

HORTICULTURE is all right and will I hope receive the recognition it deserves at the hands of the subscribing public. — A. M. H.

Inclosed herewith please find my humble subscription to your very fine journal of HORTICULTURE. It is all right. — A. J. S.

Inclosed find $1 for HORTICULTURE, with the hope that it will maintain the standard of excellence that has characterized its life thus far. — E. W. B.

Accept my congratulations and best wishes to your paper HORTICULTURE, which I read with great interest. I like it better every week. Wishing you success, I remain, Yours truly, G. B.

HORTICULTURE seems to be the paper we have long been looking for. It covers the field as no other trade-paper has. I am more than pleased with it.

Very truly yours,
W. B. A.

After Adjournment

Yes, thank you, we are growing satisfactorily. The rapid daily growth of HORTICULTURE'S subscription list gives us the best kind of evidence that the paper has the approval of the American horticultural profession.

The story of the sale of the famous Variegated Lawson makes a healthy growth as it goes its rounds. At latest report, Mr. Pierson is "a millionaire many times over." Glad to hear it and hope to have the honor of his distinguished consideration.

That hoary-headed old yarn about the "See You Later" inscription on a funeral design, has just reached the *Boston Traveler*. The *Traveler* runs an interesting department each day, giving extracts from its columns of seventy-five years ago. Perhaps this S. Y. L. item slipped out of that column by mistake.

A peculiar pink was found last week in a Bath, Me., greenhouse. It bore the three shades of red, white, and pink and was one of the most perfect specimens of floriculture that has ever been raised at the greenhouses. It has been classed as one of the freakiest freaks ever grown in that vicinity. — *Boston Globe.*

Send it to a millionaire, quick.

The Worcester (Mass.) *Telegram* is at it again. This time it is a fearful tale of "the cannibal tree that swallows a man in its horrible embrace." The instant a man touches the pistils of the monstrous plant, the leaves fly together like a trap, crushing the life out of the intruder. "Angels and ministers of grace defend us!" The authority given for this is a man named Johnson, "considered an expert in horticulture." Next!



FIANCEE AT CHICAGO CARNATION SHOW.

The *Boston Traveler* has come to the conclusion that never before in the history of New York society has there been such an extravagant use of flowers as during the present season. Like Mr. Muldoon and the "mineral wather" the *Traveler* has it on competent authority that the New Yorkers have been "obliged to draw upon the conservatories of dealers as far south as Atlanta." Wow!

"The discovery of a means of metamorphosing radishes into potatoes has been made in so solemn a place as the Academy of Sciences, Paris," says *The American Inventor*. "M. Molliard takes a very young radish, 'Pasteurizes' it in a certain way, and it grows up into a fine potato. More scientifically, the young radish is cultivated in a glass retort, after a process invented by Pasteur, in a concentrated solution of glucose. Starch then develops plentifully in the cells of the radish, which swells out, loses its pepperiness, and acquires practically the consistence, flavor, and especially the nutritive properties of the potato."

Take them away. The old-fashioned "spud" for us, if you please.

It must be rather disheartening to Congressman Roberts, who wants the government to make a big appropriation for destroying moths in Massachusetts, to have the people of Roxbury suddenly conclude that the situation, so far as their town is concerned, can be easily handled without government or state aid. Assuming that an ounce of prevention is worth a pound of cure, Roxbury folk are going to destroy the nests, thousands of which may now be seen on the trees. If each community would tackle this moth problem in a determined and systematic manner instead of waiting for state or national aid, in a few years the plague of the gypsy and brown-tail would be a matter of tradition. — *Springfield Union.*

Yes, if they would. But they will not. Even in communities where the majority are willing to do the fair thing, there can be found men who will not lift a finger to clear their trees, or allow others to do it. Such cases must be met by a legal process, allowing the public to protect itself. Where communities do the work thoroughly there will be no need of public outlay, but there are places enough where an appropriation can be applied, and the work at Roxbury will not turn Mr. Roberts from his purpose of obtaining government assistance. — *Lynn Item.*

The *Lynn Item* is right, as usual. Lynn knows how it is; Springfield doesn't, but she will.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY

The February exhibition of the Massachusetts Horticultural Society combined with the special annual shows of the two flower markets made a splendid display and drew a large attendance at Horticultural Hall, last Saturday. The usal groups of specimen primulas and Lorraine begonias attested the skill of the private gardeners, and the expert commercial growers were represented by a brilliant profusion of carnations and violets.

The prizes for Primula sinensis were won by E. J. Mitton, George F. Fabyan, and Mrs. J. L. Gardner respectively, in order named; for Primula stellata by E. A. Clark and Mrs. J. L. Gardner; for Primula obconica by George F. Fabyan, twice, and Mrs. J. L. Gardner; and for Begonia Gloire de Lorraine, by M. T. Stevens and E. A. Clark.

Other displays in the plant section were some fine lachenalias from Harvard Botanic Garden, well-grown commercial cyclamen from A. M. Davenport, primulas from Mrs. A. W. Blake, E. W. Breed, E. A. Clark, Botanic Garden and Francis Skinner, and Cypripedium Dauthieri from A. W. Blake; also the following which received special recognition: Dendrobium Ainsworthii by W. C. Rust, gardener to Dr. C. G. Weld, certificate of merit for superior cultivation.

Lælia Mrs. M. Gratrix (L. Cinnabar ina×L. Digbyana) a beautiful orange colored flower with fringed lip, by J. E. Rothwell, certificate of merit; Lælio-Cattleya Adolphus (L. cinnabarina×C. Acklandiæ) by J. E. Rothwell, honorable mention.

Judged by quality and advanced selection, the carnation display was the finest ever seen in Boston. The highest honor won was a silver medal by Victory of which Alex. Guttman of New York showed a fine vase. Certificates of merit were awarded to seedling Helen Goddard shown by S. J. Goddard, Red Lawson from W. J. Palmer & Son and seedlings Aristocrat and Afterglow from R. Witterstaetter. Honorable mention was given to seedling scarlet from E. N. Pierce & Son, and seedling Mikado from M. A. Patten. The special prize offered by HORTICULTURE for vase of one hundred blooms arranged with other foliage was won by Patten & Co., the contents of the vase being The Belle, Dorothy Whitney and Mrs. M. A. Patten with Pierson fern fronds and Asparagus Sprengeri.

As showing in some degree the relative importance of the various commercial carnations in this section it may be of interest to know the number of growers staging each. Enchantress was staged by Patten, Fisher, Goddard, Stevens, Reuter, Backer and Pierce; Mrs. M. A. Patten by Patten, Nicholson, Fisher, Stevens, Goddard and Backer; Lawson by Fisher, Nicholson, Reuter, Small and Goddard; Harry Fenn by Nicholson, Patten, Backer and Stevens; Fair Maid by Stevens, Roper, Small, and Capers; Flamingo by Fisher, Backer and Dickerman; Lady Bountiful by Fisher and Patten; Nelson Fisher by Fisher and Patten; Dorothy Whitney by Patten and Backer; Gov. Wolcott by Stevens; Harlowarden by Reuter; Belle by Pattens; Eldorado by Backer; Vesper by Reuter; Judge Hinsdale by Pierce; Her Majesty by Capers; White Lawson by Dickerman. F. R. Pierson Co., showed Variegated Lawson and Winsor; A. Roper showed Chester Roper; Patten & Co. showed the Pink Patten, and Backer & Co., a yellow seedling from Lawson×Eldorado.

Prizes were awarded as folows: 25 White — Peter Fisher, Lady Bountiful; Patten & Co., Lady Bountiful; H A. Stevens, Gov. Wolcott. 25 Scarlet — Backer & Co., Flamingo, C. E. Dickerman, Flamingo. 25 light pink — Patten & Co., Enchantress; S. J. Goddard, ditto; H. A. Stevens, ditto. 25 dark pink — William Nicholson, Lawson; L. E. Small, Lawson; Patten & Co., Nelson Fisher. 25 crimson — William Nicholson, Harry Fenn; Patten & Co., ditto; Backer & Co., ditto. 25 variegated — William Nicholson, Mrs. M. A. Patten; Patten & Co., ditto; Peter Fisher, ditto. 25 yellow — Patten & Co., Dorothy Whitney; Backer & Co., ditto; Backer & Co., Eldorado.

The special prizes of the Boston Cooperative Flower Growers' Association were awarded as follows:

50 white — Peter Fisher, Lady Bountiful; Patten & Co., ditto. 50 scarlet — Peter Fisher, Flamingo. 50 light pink — Peter Fisher, Enchantress; S. J. Reuter, ditto. 50 dark pink — Peter Fisher, Nelson Fisher; S. J. Reuter, Lawson. 50 crimson — Peter Fisher, seedling No. 113 (Maceo×Lawson); S. J. Reuter, Harlowarden. 50 variegated — Patten & Co., Mrs. M. A. Patten; Peter Fisher, ditto. 50 yellow — Patten & Co., Dorothy Whitney. 100 blooms not less than six varieties — William Nicholson.

The special prizes of the Boston Cooperative Flower Market were awarded as follows; 50 Fair Maid — H. A. Stevens Co., A. Roper. 50 white — C. E. Dickerman, White Lawson; L. E. Small, seedling No. 3. Best seedling not in commerce — Patten & Co.. Mikado. Violets; 100 Princess of Wales — H. F. Woods, William Sim. 100 Lady Hume Campbell — H. F. Woods, L. E. Small. 25 roses other than American Beauty — Waban Rose Conservatories. Wellesley. Sweet Peas; 100 spikes — William Sim, Malcolm Orr. Mignonette; 25 spikes — William Nicholson, A. H. Fewkes.

The Horticultural Society's violet prizes were awarded as follows: 100 blooms, double — Malcolm Orr, L. E. Small, A. F. Coolidge. 100 blooms, single — William Sim, J. H. White, M. B. Dallachie. Other violet contributors were A. M. Davenport, M. T. Stevens, N. F. Comley and Edward Wood. Joseph Clark showed some good wall flowers and J. McFarland a bunch of fine lily of the valley.

In the fruit and vegetable department there was a good display of radishes, cucumbers, lettuce, etc., but the most admired exhibit was a plate of superb mushrooms grown from pure culture spawn by H. A. Stevens Co.

NEW YORK FLORISTS' CLUB

The meeting on Monday evening, February 13, was one of the most remarkable in the club's history. Over two hundred were in attendance and all were brimfull of enthusiasm. A superb exhibition of carnations added to the brilliancy imparted by the large number of young, beautiful, and talented ladies present. Because of these extra attractions the routine business of the club was passed over rapidly and several matters were deferred until the next meeting. Five new members were elected and six more were proposed.

Mr. William Weber of Oakland presented the instructive paper on cutting bench fungus or stem rot, which we present in this issue, and after some appreciative comments a unanimous vote of thanks was tendered to its author.

The social features of the affair were exceedingly enjoyable and well carried out. The various departments of the house committee's special work under the supervision of its efficient chairman, J. B. Nugent, Jr., were conducted with one object in view, — the comfort and pleasure of everybody — and with unparalleled success. John Birnie and the bag-pipes, the Misses Birnie and friends contributed songs and dances, and even Mr. Nugent was himself prevailed upon to give a couple of sweet songs. The outer room was efficiently managed by Messrs. Jos. Manda and Robert Koehne.

The question box is to be made a leading feature of future meetings. The query, "What are the most valuable characteristics in a carnation, a rose, a chrysanthemum, and a fern?" has been referred to John Birnie, Harry O. May, William Duckham, and John Scott respectively with request to reply at the next meeting of the club.

The following named exhibits were made and a vote of thanks was recorded for their donors. F. R. Pierson Co., Carnations — Winsor, Daheim, Mrs. M. A. Patten, Variegated Lawson, Enchantress and Flamingo; Max Weiman-White Lawson and Max Weiman; Cottage Gardens, Lieut. Peary, Robert Craig, President, No. 222, No. 2621, and a number of seedlings; John Reimels, Variegated Lawson and No. 31; R. C. Pye, Enchantress, Sport; Patten & Co.. Mikado, J. N. May, Phyllis; J. L. Dillon, Crisis; Young & Nugent, cape jessamines; Peter Bisset, seedling rose; John E. Haines, carnations; Sea Cliff Nursery, carnation Long Island Beauty; H. Weber & Son, My Maryland, and No. 68; W. J. Palmer & Co., Red Lawson; Guttman & Weber, Victory.

PITTSBURG AND ALLEGHANY FLORISTS' AND GARDENERS' CLUB

At the meeting of the Pittsburg and Allegheny Florists' and Gardeners' Club on February 7, the resignation of President William Falconer was accepted, and as a mark of its appreciation of his services the club presented Mr. Falconer a handsome silver coffee set. It was with great regret that the society gave up the leader who organized the society in the first place and who has always been its head. T. P. Langhans was elected to the presidency and the other officers were unanimously re-elected, as follows: Vice-president, E. C. Reineman; secretary, H. P. Joslin of Ben Avon; treasurer, Fred Burki.

The special subject for discussion was the carnation, and there were on exhibition many handsome exhibits from local and distant growers.

Following is the address of President-elect T. P. Langhans.

Gentlemen: —

I am deeply sensible of the compliment you pay me by your unanimous

choice of me to be your chairman. I appreciate the confidence you place in me and esteem it no small honor that you show me. Accept my hearty thanks. The office I accept with some hesitation and misgivings, because I am wholly inexperienced and am afraid I shall do but poorly in comparison with my worthy predecessor. Lend me your friendly assistance and support. On my part, I promise to do my best.

The club has been highly successful, whether viewed from an educational, commercial, or social standpoint. We have come together and frankly told each other what we knew, or thought we knew, about our art and our business; we have made exhibitions of flowers, plants, florists' and gardeners' material, interesting in themselves and of great educational value to our profession. I am certain that no one who has attended our meetings can truthfully say he has learned nothing at them, and received no benefit from them. Let us continue to conduct the club just as we have been doing with the same frank discussions and the same interesting exhibitions. Our efforts to make the club a success will surely redound to the individual advancement and profit of each member. The club enters the year under favorable and encouraging circumstances. Our secretary's report shows an enrollment of 153 members, and the finances are in good condition.

The club's present flourishing condition and its well-attended meetings are largely due to the untiring efforts of the retiring president. He won our respect and admiration when he presided at our meetings, and kept alive the interest in them, but even more did we respect and admire him when, as an earnest club member and enthusiast in his chosen life's calling, he gave us the benefit of his deep learning and acquirements and his extensive experience. We have learned to appreciate his excellent qualities of head and heart.

Mr. Falconer, I know I voice the sentiment of every member when I express the gratitude we feel toward you and our regret to have you vacate the chair. The members desire me to thank you for your valuable services to the club, and to show their appreciation in tangible form have delegated me to present to you this sterling coffee service, and thus have you constantly drinking to our health and the success of this society. Accept it as coming from your sincere friends, with their best wishes for your future happiness and well-being.

VERMONT HORTICULTURAL SOCIETY

The eighth annual meeting of the Vermont Horticultural Society opened at Vergennes, February 9. Mayor F. C. Phelps gave an address of welcome, and a response was made by President George H. Terrill of Morrisville. The reports of the secretary and treasurer were read and accepted. The first number on the programme was "Suggestions for Planting and Caring for Young Orchards," by A. M. Vaughan of Randolph. He spoke from his own experience and said care should be exercised in preparing the ground as much as for any other crop.

T. L. Kinney of South Hero followed with an address on "Some Pointers on Growing and Marketing Fruit." He said that careful picking and sorting are necessary to get the best prices. Every fruit grower should have a storehouse.

W. T. Marcoum of the central experiment station at Ottawa gave an instructive address on the "Cherry." To overcome the difficulty of raising cherries in a cold climate he advised introducing the dwarf varieties, as they are much harder. The best of the larger varieties are Early Richmond, Montmorency, English Morello.

At the evening session Mrs. Mary A. Smith of Morrisville read an interesting paper on "Horticulture and Its Relation to the Home." H. W. Heath of the Vermont University read two selections, Professor L. H. Bailey of Cornell University gave an able address on "Horticulture as Compared with Other Professions," and Professor L. R. Jones of Burlington spoke on "Some Observations of European Horticulture."

The first number on the programme for the second day was a paper on "Market Gardening" by L. H. Sheldon of Fair Haven. Mr. Sheldon advocates advertising in the newspapers and says that in his town they find it pays.

G. E. Hunt of Rutland followed with an instructive and interesting paper on "The Growing of Plants and Cut Flowers."

George W. Perry of Chester spoke upon "Sunshine," and its part in the production of the best fruit.

"Small Fruits for Home Use and for the Market" was the subject of a paper read by Mrs. Etta LePage of Barre, which contained helpful hints and suggestions.

Professor Frank A. Waugh of Amherst read an able and interesting paper on "The Advancement Made in Horticulture for the Last Fifty Years." W. Stuart of Burlington followed with an excellent paper on "Suggestions on the Preparation and Use of Fungicides," in which he called attention to the better methods in the preparation of fungicides, especially of Bordeaux mixture, the use of pumps capable of developing sufficient pressure to make a fine spray, and a clearer idea of diseases, and the best remedy for their eradication.

In the afternoon President G. H. Terrill gave an address. He firmly believed that in the near future by the influence of this association, the press, the experiment station, the board of agriculture, and last but not least the Grange a work is being done that will turn the best young men back to agricultural pursuits and so build up the State that emigration will flow in, instead of ebbing away.

The following officers were elected: President, E. S. Brigham of St. Albans; secretary, William Stuart of Burlington; treasurer, A. M. Vaughan of Randolph; auditor, T. L. Kinney of South Hero.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS

At a meeting of the Executive committee held in Springfield, Mass., January 18th last, it was voted to hold the annual convention at Buffalo, N. Y., June 28, 29, 30, and that Niagara Falls and Rochester might also receive a visit.

KENTUCKY SOCIETY OF FLORISTS

The meeting of the Kentucky Society of Florists last Tuesday night was a very pleasing one, although the attendance wasn't any too large. After the meeting which was held at Mr. Wettle's residence, lunch was served, and a very good time prevailed, for which a vote of thanks was given.

Tuesday March 7, has been designated "Carnation and Rose Night," and anyone having anything in the way of new or recent varieties will greatly favor us by sending a few blooms to the secretary.

The Kentucky Society of Florists,
Per FRED L. SCHULZ, *Sec'y*,
644 Fourth Ave., Louisville

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY

The above society will hold its annual Carnation Exhibition in the Court Room, Huntington, N. Y., on Tuesday evening, February 21. Doors will open at 7 o'clock and the admission will be free. Everybody is invited. Certificates, diplomas and prize cards will be awarded as premiums in the following classes:

CARNATIONS

I. 25 Thomas W. Lawson or any other dark pink.
II. 25 Enchantress or any other light pink.
III. 25 White.
IV. 25 Scarlet.
V. 25 Crimson.
VI. 25 Any other variety.
VII. 25 Any variety not disseminated.

ROSES

VIII. 12 Teas.
IX. 12 Any other variety.

VIOLETS

X. 100 Double.
XI. 100 Single.

Well grown specimens of any winter flowering or foliage plants will be recognized according to merit.

For judging carnations the American Carnation Society's scale of points will be used,

EXHIBITION COMMITTEE,
Silas Ott,
Walter Shaw,
A. H. Funnell, *Secretary.*

NEW LONDON HORTICULTURAL SOCIETY

The New London (Conn.) Horticultural Society, organized last September has already passed the hundred mark in membership, and so widespread is the enthusiasm over the institution that it is proposed to widen its scope by changing the name to that of the Eastern Connecticut Horticultural Society.

ANNUAL DINNER OF THE DUTCHESS COUNTY HORTICULTURAL SOCIETY

This interesting event took place at the Nelson House, Poughkeepsie, N. Y., on the evening of February 9th. The addresses were all of the high order of eloquence characteristic of the occasion in the past.

NOTES

The lecture at Horticultural Hall, Boston, on Saturday, February 11, was by Prof. F. A. Waugh of Amherst Agricultural College, his subject being, "Dwarf Fruit Trees; Their uses, propagation, and management." On February 18, Dr. George T. Moore of Washington will deliver a lecture on "Bacteria as Fertilizers," with stereopticon illustrations.

W. W. Rawson of Arlington, Mass., delivered an address before the Worcester County Horticultural Society last week.

Mr. Rawson spoke on the kinds of fertilizers in use, their proper application to the soil, their ingredients, and the different crops that benefit by their use. He said that fertilizers were not used so much in greenhouses as on land outside, as the florists fear to experiment with some of them. Ground bone is one of the best. Some are not good because not soluble. Moisture in the soil is necessary for the best results from some fertilizers. The uncertainty of their results makes the fertilizers undesirable sometimes.

STEM ROT

A paper read before the New York Florists' Club on February 13th, 1905, by Wm. Weber.

In accepting the invitation of your secretary to read a paper here to-night, I judged that in the absence of a definite subject being assigned to me, I was free to take up any part or parts I might choose. I have therefore sought to avoid rehearsing the old story beginning with the taking of the cuttings, and winding up with their ultimate end when the touch is applied somewhat more than a year later.

In attempting to discuss the subject of cutting bench fungus or stem rot, it is not my intention or wish to lock horns with any of our brethren who are studying these subjects from a scientific standpoint. We need the aid of the experiment stations and scientific men, and we have been benefited much as a result of their labors and we still look forward to aid in disposing of the various vexing problems which are constantly besetting us, but I believe that our friends, the professors, being only human, are apt to err just as we ordinary growers are apt to do.

Professor Hasselbring, in his paper read recently before the American Carnation Society in session at Chicago, stated that fungi in every instance are the prime causes of disease, not the condition. Now I doubt if any successful grower who has given the subject any serious consideration will corroborate Professor Hasselbring's statement. If he told us that typhoid, smallpox, etc., were the first causes and not the result of conditions he would be arguing along the same lines, but let us see how this theory stands when compared with what I believe are the actual facts in the case.

We will start at the cutting bench, say with a full bench of sound, healthy cuttings recently placed in new sand. I maintain the idea that during the rooting process cuttings not only do not require direct sunlight, but even strong light such as will penetrate ordinary newspapers with the sun shining directly upon it is far from beneficial. You will see at a glance then, that I am an ardent adherent of the north-side propagating house for carnations.

But to illustrate why fungus appear, let us imagine our bench of cuttings is in a house admitting the sun's rays at all hours, but especially during mid-day. During cloudy weather it is not difficult to maintain an even temperature of about 50 to 60 degrees, but during bright weather it is not so easy. Of course the glass may be shaded, but much heat will generate just the same, and it is quite easy for the temperature to go above the danger point, which is 60 to 65 degrees, depending somewhat upon the conditions.

Under the influence of strong light and added heat, plants throw off the moisture collected during the night, and a wilting ensues. This process is equivalent to exercise in the animal family, but we don't expect infants to take strong nourishment and vigorous exercise, and we must act accordingly with our cuttings. When we give heat and light in sufficient quantities to cause this wilting process, evaporation takes place out of all proportion to the cutting's vitality and ability to withstand the drain. One good experience like this will start the ball rolling. Cuttings here and there or whole batches have a shriveled appearance, and refuse to thoroughly freshen up; it will not be long then before an examination will disclose the presence of fungus around the stems which will kill the cuttings quickly, or slowly, according to the temperature maintained.

We advocate the north-side propagating house because of its easier management; the direct rays of the sun are kept out during the most of the propagating season, but sufficient light is admitted for all purposes. The only time we experience difficulty at all is when the high south partition or wall no longer excludes the sun's ray's, when greater vigilance is necessary. However, even then the sun's rays strike the glass at a very extreme angle and we do not suffer in proportion as we used to before we adopted the north side.

We have found it unnecessary to have clear, sharp sand; in fact we consider that a distinct drawback. The inability to secure sharp sand in our section soon taught us this lesson. We all know that for the first few weeks the cutting is obliged to subsist upon its own vitality, and while the process of rooting is going on, a gradual hardening of the stem takes place, and if allowed to remain in sharp sand long after they become rooted, we say they are woody; this is a frequent cause for stem rot developing in the plants later on, and usually produces the slow process of rotting unless conditions very favorable to the growth of fungi exist, when wholesale dying will result.

This does not occur with cuttings rooted in sand containing some loam, decayed leaves, twigs, etc., such as we find along the banks of any small stream which overflows at various times of the year, depositing the sand, leaves, twigs, etc., mixed with some of the fat of the land, a very fine loam.

The nourishment contained in sand of this kind while very mild, is very nourishing to young cuttings just putting out their first tiny rootlets, and from this moment on they begin to stop hardening at the stem, and grow, instead of getting woody and laying the foundation for various stages of stem rot to crop out later on.

With our system of propagation, it takes about six weeks during midwinter to thoroughly root a batch of cuttings, and during this time they are watered about six times, four times during the first two weeks. After they are calloused they are kept increasingly dryer until they are quite dry when ready to plant in soil or pot up. This drying process we find necessary to counteract the absence of sunlight.

I do not wish to infer that good results are not obtainable in a propagating house admitting the direct rays of the sun, but the point I would make is that the chances for unfavorable conditions to arise, are much greater as compared with the north-side house.

Any check sustained by the plants after being removed from the cutting bench, such as getting extremely dry



J. A. PETERSON AND HIS HOUSE OF LORRAINES, CINCINNATI

in flats or pots, will result in producing that hard woody condition in the base of the plant; and every grower knows how plants so treated will at best die a lingering death. Many plants more or less affected in this way find their way into the field, which is responsible for much of the stem rot found there. Deep planting and imperfect drainage are also large contributors to stem rot.

A couple of years ago we began our field planting as is our custom, about May 15. The soil was quite dry, but there were indications of rain; however, the rain did not come, and on the third day, we were obliged to water the plants by hand. The bright sun and a strong wind, however, had already sapped out all of the moisture the plants could muster, consequently quite a few never revived, some only partially revived, and others kept dying from time to time throughout the summer, and even after they were housed. Perhaps a week later we had plenty of rain, but those planted in the dry ground without being watered until the third day kept on dying just the same, while those planted after the rain, and those watered as they were planted, did not suffer.

Just a word concerning the theory advanced by Professor Hasselbring that the fungus enters the plants through the roots. I have never yet been led to believe this could be the case, and instead, I have invariably noticed that the fungus operates upon the surface of the sand or soil, and any dead roots are the result of curtailed breathing of the plant through a loss of foliage. The same thing happens if we use the pruning shears too freely upon our roses or other growing plants. A portion of the roots die through a lack of something to do.

We have all noticed young plants and even old plants carried off by quick rot just at the surface of the soil, and some time later see numerous small new growths coming out of the old stem, indicating that the old root is still alive, and doing away with the idea that the disease enters the plant by way of the roots. The slow form of stem rot would indeed give this impression, but knowing the facts as already stated, I believe this view to be erroneous. Cutting bench fungus and stem rot will cease when the conditions favoring its growth cease, and not before.

It is true that some varieties are carried off much quicker than others, but this does not indicate that we may hope for varieties which will remain immune under conditions favorable to the growth of fungi, but rather that those varieties of a rather soft or fleshy nature such as Daybreak, Uncle John, Flora Hill, Enchantress, and others similarly constituted need special care. As a rule such varieties must be kept a little dryer than others of a more firm and solid growth.

While there is no hope of ridding a plant of the disease when once attacked, I know that in the case of valuable plants, such as first year seedlings, cuttings may be taken with entire safety, providing the disease has not progressed too far. We can cite many illustrations of this kind.

We have also noticed that plants partially affected with stem rot have lived for months, and in the meantime, produced a partial crop of good blooms. We do not attribute this entirely to the resistant power of the plant to the disease, but rather to the absence of favorable conditions for the growth of the fungus.

I am willing to go on record as differing with Professor Hasselbring that the fungi are the prime cause of disease. In my humble opinion they are the effect, and conditions unfavorable to plant life and favorable to the rapid growth of the fungi are the immediate causes. In other words, the fungi bear the same relation to vegetable matter that the green bottle fly and its larva does to carrion — nature's method of disposing of dead matter where sufficient moisture and heat exist to make the growth of these organisms possible.

AMERICAN CARNATION SOCIETY

Carnations Registered

By M. Winandy, Chicago, Ill. — Lizzie McKey; color, scarlet red, size three inches in diameter, length of stem eighteen to twenty inches, strong and erect.

By the Indianapolis Flower and Plant Co., Indianapolis, Ind. — Coral; color, peach blossom, very bright and showy, size three and one-half inches, slightly fringed, very full; good strong calyx; vigorous growth and continuous bloomer. Allspice; color, white, heavily striped with red and petals edged with red; size three and one-half inches, very full, heavily built and unusually fragrant; very prolific, strong, quick, continuous grower. Candace; color, pink, shade brighter than Lawson, size three and one-quarter inches, very round, well-formed flower; an early and extremely heavy producer throughout the season; quick grower.

ALBERT M. HERR, *Secretary.*

NASSAU COUNTY HORTICULTURAL SOCIETY

The next meeting, March 1st, will be Carnation day. A box of cigars is offered by the president for the best vase of red and best vase of white carnations.

Meetings are held on the first Wednesday in each month at 2.30 P.M.

S. J. TREPESS, *Secretary.*

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

President J. C. Vaughan has appointed the following gentlemen State Vice-Presidents in addition to the list previously published:

DISTRICT OF COLUMBIA. — George H. Cooke, Washington.

KENTUCKY. — Fred Louis Schulz, Louisville.

PENNSYLVANIA. — W. Fred Burki, Bellevue.

WM. J. STEWART, *Secretary.*

GARDENERS' AND FLORISTS' CLUB OF BOSTON

W. W. Rawson will deliver a lecture at the next meeting of this club, February 21, at Horticultural Hall, his subject being, "The Increase in Productiveness of Greenhouses during the Past Twenty-Five Years." There will be a number of interesting exhibits and every gardener and florist within convenient distance should be present.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE

GREENHOUSE ESTABLISHMENT, — 38,000 feet, fully stocked with Carnations, Roses and Palms, within three miles of a New England metropolis. **Good established trade. Wholesale and Retail.**

$4.000

A BIG BARGAIN

Address A.N., care HORTICULTURE, 11 Hamilton Pl., Boston

FOR SALE

One Upright Steam Boiler, 60 inches high x 32 inches diameter, capacity 2400 ft of 1¼-in pipe, complete with all trimmings and castings at a bargain. We also carry a complete line of pipe and fittings and would be pleased to quote you on above.

RITCHIE HEATING CO.
483 Lincoln Avenue, Chicago, Ill.
Two 'Phones, North 1394, Dearborn 6774.

FOR RENT

$50.00 per month; five greenhouses, 9000 square feet of glass, 9½ acres of good ground, house and barn, long lease. $1000 cash for stock, etc. Near Chicago.

Address B., Care HORTICULTURE,
11 Hamilton Place Boston.

ROSES WANTED

Catalogues and Price Lists wanted from all growers, THEODORE WIRTH, Sup't Public Parks, Hartford, Conn.

FOR SALE — In New York State near Troy and Albany, seven modern well-equipped greenhouses — 40,000 sq. ft. of glass. Roses, carnations, sweet peas, and some bedding stock. All in good order, steam heat, plenty of water. 200 yds. from city boundary — fifteen minutes' drive from R. R. station. Wholesale trade only. Comfortable house, eight rooms hot and cold water throughout — good cellar carriage and wagon house, workshop, all tools for farm and greenhouse work. Small farm twenty-three acres. Will sell all glass and lease farm if desired. Good reason for selling. An unusual opportunity for a Rose and Carnation or bulb stock grower.

Address Willowbank Greenhouses, Troy, N. Y.

FOR SALE — 7-room house, 16,000 ft. of land and greenhouse near center of city of 30,000 inhabitants. Grand chance for gardener. Grow ferns, palms and bedding stuff for retail trade Plenty of jobbing. Or could increase glass for wholesale growing Fifteen minutes to Boston. Nine-cent fare. Five hundred dollars down, balance, easy payments, will make easier terms if right parties.

Inquire H. H., Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED Head Gardener well up in all branches, A 1. Orchid Grower, married no family. Age 32 Nat. English. Apply stating particulars to S. H

Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED As gardener on a small private place or small commercial greenhouse Eighteen years' experience in greenhouse work Can furnish the best of references as to character.

Address C. H. F. Box 92. Fishkill, N. Y.

SITUATION WANTED — By first class all around man. A 1 vegetable grower, 15 years reference from former place. Address W. Care HORTICULTURE,
11 Hamilton Place, Boston.

OUTDOOR ART AND CRAFT

Messrs. August Rolker & Sons continue to be the American agents for August Haerens, Belgium, grower of palms, azaleas, etc. The old firm of Haerens Bros. having expired by limitation, August Haerens continues the business on the old place. It was Mr. August Haerens who visited this country six years in succession and built up the American business of Haerens Bros.

R. Inglis, industrial and agricultural agent of the Gulf & Ship Island Railroad, who is organizing truck-growing associations along the line of that road in Mississippi, states that 4000 bushels of seed Irish potatoes will be used by planters along the Gulf & Ship Island route this year in the effort to diversify their crops. He estimates that, under fair conditions, this amount of seed should yield from 200 to 300 carloads of potatoes for shipment to the Northern and Eastern markets.

Haverhill, Mass., is fully aroused in regard to the gypsy and brown-tail moths. Clubs, churches, societies, city government, and individuals are all showing a determination that means business. The city council has appropriated $1000 for the work, and a delegate meeting of thirty-five women's literary clubs has voted to assess each club the sum of $5, $100 of which will be used to purchase premiums for the schools where pupils succeed in collecting the largest number of brown-tail nests. Individual prizes will also be offered for collecting the largest number.

Representative Lovering has introduced a bill in Congress to prohibit interstate transportation of insect pests and the use of the United States mails for that purpose. It provides "that no railroad, steamboat, express, stage, or other transportation company shall transport from one state or territory into any other state or territory the gypsy moth, browntail moth, leopard moth, plum curculio, hop-plant louse, or any of them in a live state, or other insect in a live state which is notoriously injurious to cultivated crops or trees, except when shipped for scientific purposes under the regulations hereinafter prescribed." Removal of the objectionable insects by any person from one state to another is also prohibited.

Any person knowingly mailing or receiving from the mails a package of the class specified for the purpose of circulating or disposing of its contents shall be subject to a fine of not more than $5,000, or imprisonment at hard labor not more than five years, for each offence, or both, at the discretion of the court.

TREE PESTS IN NEWPORT

Bruce Butterton addressed the members of the Newport Horticultural Society at a recent meeting, on the San Jose scale. Mr. Butterton sketched this scourge of horticulture from its introduction into Newport some years ago until the present time, when it has attained proportions most alarming to those interested.

He urged the members to exert all their influence to have the legislature pass a measure whereby some one would be given authority to destroy nursery and other stock invested with this pest to such an extent that spraying or other methods would be unavailable, saying that, until this was done, there would be but little use in individuals taking precautions at the expense of much labor and money.

Mr. Butterton also spoke of his experience in combating the elm-leaf beetle. On the Berwind estate, which he has charge of, there are upwards of fifty elm trees averaging forty feet in height. With a medium-sized pump and sprayer he found it comparatively easy to rid these trees of the pest, thereby preserving the chief ornaments of the place. Mr. Butterton said he only accomplished what could be done by others if they persevered in the endeavor.

AMHERST AGRICULTURAL COLLEGE AND ITS NEEDS

In these days when advocates of the simple life are met with on every hand and it is generally acknowledged that farm labors and country pursuits are thoroughly admirable helps to a saner and more wholesome fashion of living, such a bill as that now before the Legislature to provide one hundred thousand dollars worth of much-needed improvements for the Massachusetts Agricultural College at Amherst, would seem sure to receive the cordial endorsement of all enlightened people. When the bill came up Friday morning last for discussion no opposition developed, to be sure. None the less, it is probable that this evil is merely postponed and that later, when the farmers and their representatives are given a hearing at Amherst, several of them will appear to oppose House Bill No. 325, introduced by Representative Jewett of Worcester, that new horticultural, botanical and entomoligical departments, new greenhouses and improved live stock, be provided for this excellent institution.

If the farmers are wise, however, they will think twice before opposing the growth of Amherst's Agricultural College. To place themselves in the attitude of critics towards this institution is merely to proclaim their own narrowness. Rather should they work with the college for the best interests of agriculture, — a cause which it has done much to promote. Even hampered as it has been by inadequate funds and a comparatively meagre equipment, this college has proved its right to existence. During the past year it has had nearly three hundred men receiving instruction, and that at absolutely no cost for tuition. Moreover, by reason of a system of self-help, it is here possible for a farmer's son of exceedingly cramped means to get a thoroughly valuable training in science.

It should not be thought, however, that only farmers' sons avail themselves of the opportunities of this college. Free as it is to all citizens of the United States, sons of men in various professions or wage-earning work, come here for an education. At present, the quarters for their accommodation are pitiably cramped. The exceedingly popular short-winter course has been compelled to set up a waiting list so inadequate are its facilities for instruction.

The situation of the college, on the top of a high hill, from which is to be seen the most beautiful mountain range in Massachusetts, is unsurpassed, and nowhere is the air finer or the conditions for a farm career more favorable. The life is simple and healthful. Chapel attendance is required, and every morning the lads at the "Farmers' College," as this institution is called in contradistinction from its purely academic neighbor in Amherst village, assemble for worship in the handsome granite chapel, which is almost the only really beautiful building on the campus. Drill is also required, this department being in charge of a distinguished West Pointer under whose supervision the students must undergo the discipline which care of their own rooms involves.

In short, Amherst Agricultural College is an institution which one has only to know about to approve. It is American and New England to the core. But it is more than either or both of these, — it is a humanizing force. For here lads are taught the dignity of that labor upon which Adam, the first gentleman, was engaged, and are made to understand that since nature is the kindly mother of every one of us we are all brethren. — *Boston Budget.*

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NEWPORT HORTICULTURAL SOCIETY.

Professor John Barlow, of the Rhode Island College of Agriculture and Mechanic Arts, lectured before the Newport Horticultural Society, on Wednesday evening last, on "Economic Insects," president James J. Sullivan in the chair. The meeting was well attended, and the lecture which was illustrated with lantern slides was listened to with close attention throughout. The lecturer illustrated many of the worst pests that gardeners and farmers have to contend with, telling of their various stages of development, how they are injurious, and how they can be controlled or destroyed. The formulæ for the destruction of these pests, as given by Professor Barlow, were in some parts new to many of those interested; but as he stated were used successfully at the experiment station.

We give a digest of the methods practised and adopted at the college for destroying garden pests.

Cabbage Butterfly. — This is an imported pest, thirty years in America. Butterfly, common white with black spots. Larvæ eat leaves. Most serious pest of this crop.

Treatment. — Cultural, remove all rubbish and thus kill winter cocoons. Spray with lead arsenate. For the destruction of this pest resin washes are useful, but are somewhat troublesome to prepare. Use all poison washes, when applied late in the season, with great care as they persist in the close heads.

Tomato Worm. — Beautiful moth and large green worm. This worm is often destroyed by parasites.

Treatment. — When numerous, spray with Paris green or lead arsenate before fruit ripens.

Coddling Moth. — Larvæ bore into young apple at blossom end, Has a partial brood in fall, and winters in cocoon in crevices of rough bark. These winter forms are destroyed in large numbers by woodpeckers.

Method of Control. — Only way is to put poison into the calyx of blossom before it closes. Young enter here and usually feed in the cup before entering the apple. Also destroy wormy apples.

Peach Borer. — Kills young trees. Worm enters tree near the root. When once in, the only way to kill is by thrusting a wire into the burrow. Some dig out, but this process injures the tree more than the other method. Protect trees from these pests by wrapping them in fine wire gauze, burlap, or thin veneer. This precaution will prevent the moth from reaching the tree, if the gauze or whatever is used is placed two or three inches below the surface of the ground. Another method, though less effective, is to wash the base of the tree with strong soap or lye.

Fall Web Worm. — These worms are destroyed by burning out the nest. It may often be removed bodily without injury to the tree.

Apple Tent Caterpillar. — Treatment as above. These worms leave nest to feed by day, hence burn early in the morning.

Currant Borer. — Larvæ of small moth bores in wood. Stems thus attacked will show wilting leaves in early summer. Cut out all such stems and burn them.

Elm Leaf Beetle. — Imported pest. Spray trees in summer with Paris green or lead arsenate. When the worms come down to pupate upon the trunks of the trees, kill with soap or caustic soda.

Rose Chafer. — Shake off beetles into a sheet. Spray with lead arsenate.

Plum Curculio. — Beetle, lays eggs under skin of young plums causing crescent shaped blemishes.

Treatment. — Shake off the beetles and plums into "Catcher," a big reversed umbrella-shaped affair of cloth. This must be done in early morning. Pears, apples, and cherries are also often injured by this pest.

Apple Borer. — Attacks apple trees as the peach borer does peaches. Remedy the same.

Apple Aphis. — Green louse, causes "galls" on leaves, etc., and the fruit is spoiled. Spray with oil emulsion or whale-oil soap in lather.

San José Scale. — Only treatment is to spray in winter or early spring with lime, sulphur, salt wash, as the safest and best. In greenhouses, fumigate with hydro-eganine acid.

Oyster Shell Scale. — Spray while young are coming out in May or early June with whale-oil soap; one pound to six gallons of water.

Apple Maggot. — Caused by small fly. Only treatment known is to remove wormy apples to prevent flies from escaping from storage.

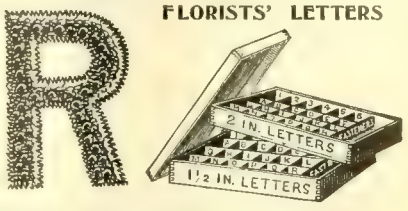
Brown-Tail Moth. — A serious pest that we will soon have to face in Rhode Island.

Treatment. — Spray with lead arsenate to kill the larvæ. Remove and burn the winter nests.

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	CHICAGO Feb. 13	ST. LOUIS Feb. 13	PHILA. Feb. 15	BOSTON Feb. 16
ROSES				
Am. Beauty, Fan. & Sp.	40 00 to 50.00	40 00 to 50.00	50.00 to 60.00	50.00 to 60.00
" Extra	32 00 to 36.00	25.00 to 35.00	40.00 to 50.00	25.00 to 35.00
" No. 1	15 00 to 25.00	8.00 to 17.00	20.00 to 25 00	12.00 to 20.00
" Lower grades	5 00 to 12 00	4.00 to 6.00	6.00 to 12.50	6.00 to 8 00
Bride & Maid – Fan. & Sp.	15.00 to 18 00	..... to 12.50	15.00 to 17.00	12 00 to 16.00
" " Extra	12.00 to 15.00	..... to 10.00	12 00 to 15.00	8.00 to 12.00
" " No. 1	10 00 to 12.00	6 00 to 8.00	10.00 to 12.00	6.00 to 8.00
" " Lower gr.	4 00 to 8 00	4 00 to 5 00	2.00 to 8.00	2.00 to 4.00
Liberty, Fancy & Special	12 00 to 15.00	..... to 12.50	30.00 to 35.00	..... to .....
" extra	10 00 to 12.00	..... to 10 00	20.00 to 25.00	8.00 to 12.00
" No. 1	8 00 to 10.00	6.00 to 8.00	12.00 to 15.00	6.00 to 8.00
" Lower grades	4 00 to 6 00	..... to 5.00	3.00 to 10 00	..... to 4.00
Golden Gate, Ivory, Chatenay — Best	12 00 to 15 00	..... to 12.50	15 00 to	8.00 to 12 00
Golden Gate, Ivory, Chatenay — Medium	8 00 to 10 00	8 00 to 10.00	10 00 to 12 00	6 00 to 8.00
Golden Gate, Ivory, Chatenay — Culls	4.00 to 6 00	4 00 to 6.00	4.00 to 8.00	3.00 to 4.00
CARNATIONS				
Fancy Class	3 00 to 5.00	4.00 to 5 00	4.00 to 6.00	3.00 to 4.00
General Class	2 00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Lower Grades	1.00 to 2.50	1 00 to 1.50	1.00 to 2.00	1.00 to 2.00
VIOLETS				
Special	.75 to 1.50	..... to 1.00	.75 to	.50 to .75
General	.....50 to .75	..... to .75	.50 to	.30 to .50
Single	.....50 to 1 00	..... to .50	.50 to .60	.25 to .50
ORCHIDS				
Cattleyas	32 00 to 50 00	..... to	50.00 to 60 00	..... to .....
Cypripediums	12 50 to 16.00	..... to	15.00 to	..... to .....
BULBOUS				
Lilies	15.00 to 20.00	..... to	12.00 to 15 00	8.00 to 12.00
Lily of the Valley	2 00 to 4 00	3.00 to 4.00	2 00 to 4.00	2.00 to 3.00
Roman Hyacinths	2 00 to 3.00	..... to 3.00	2.00 to 3.00	1.00 to 2.00
Paper White Narcissus	2 00 to 4.00	..... to 3 00	2 00 to 3 00	1.00 to 2.00
Trumpet Narcissus	2 00 to 4 00	..... to	3 00 to 4.00	2.00 to 4.00
Tulips	2 00 to 5 00	3 00 to 5 00	3.00 to 4 00	2 00 to 4.00
Callas	10 00 to 15 00	12.50 to 15.00	10.00 to 12.00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	4 00 to 12 50	4.00 to 6.00	2.00 to 5 00	2.00 to 3.00
Sweet Peas	....75 to 1.50	..... to .75	.50 to 1.00	1.00 to 1.50
Adiantum Cuneatum	....50 to 1.00	..... to	1.00 to	.75 to 1.00
" Crowe..num	..... to	..... to	1 50 to	..... to .....
" Farleyense	..... to	..... to	10 00 to	..... to .....
Smilax	10 00 to 15.00	12.50 to 15 00	10.00 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50 00	..... to	50.00 to	..... to 50.00
" " bunches	25 00 to 35 00	..... to	50.00 to 75 00	..... to .....
" Sprengeri "	25 00 to 35 00	..... to	50.00 to 75.00	..... to .....
Stevia	..... to	..... to	..... to	..... to .....
Freesia	..... to	..... to	..... to	..... to .....

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CUT FLOWER MARKET REPORTS

CHICAGO MARKET REPORT

The recent cold spell has been against a good market for some time and the week ending February 13 is no exception to this rule; in fact the market has contracted in values and receipts by a further decline on old mercury which reached 20 below zero on the government thermometers. This severe weather has considerably reduced the retail demands. There have been a number of shipments delivered to local commission men in a frozen condition, the bulk of which were violets. Delayed arrivals also were numerous. American Beauties, fancy and special grades, have advanced $10 per hundred, and it is on these that the demand cannot be filled. Brides and Bridesmaids are again coming in crop at the specialists'. The increased supply, however, shows considerable second quality, and active market. The call for Meteor and Liberty roses has been more pronounced than usual. The weak spot in the trade is in carnations; colored stock being mostly discriminated against. White carnations are in short proportions compared to total receipts and on these there is a good demand.

There have been sharp fluctuations in bulbous stock, tulips suffering most, this being occasioned by heavy receipts of La Reine. Quality is very common, only a few topfinished and novelties commanding the best published price. Violets are offered in less quantity and the interest turned largely to estimates for Monday and Tuesday's arrivals. There was a hope that St. Valentine's Day would give strength to the market on this item. Orchid supplies are regular, with demand steady. Their best sale is in the form of mixed boxes, these bringing from $5 to $25 per box. Chicago was favored with a big consignment of adiantum the past week at Winterson's, which was a timely help. Other green goods are equal to the call.

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PHILADELPHIA MARKET REPORT

Business was fair the past week, the only very slow item being violets, especially the doubles. Beauty and Liberty roses were good, and not over plentiful; prices firm; but no advance over last week's quotations. Bridesmaids and Golden Gates have been in good supply, of extra fine quality, and going well. Brides also extra quality, but hung fire somewhat.

Carnations are still at their best as to quality, but there was hardly the snap that should have been in the market. Enchantress is still the leader where high grade; but poor stock of this is just as hard to sell as poor stock of any other. Good whites and reds are selling rather better in comparison than they were last week. Low grade white is movable, but poor stock of colored is hard to move at any price. There are a few cattleyas around,—about enough for the demand. Gardenias are plentiful and good; but the demand is rather light. Lily of the valley, Roman hyacinths, and narcissi in all sorts are in fair supply and an outlet is found for all that have come in at medium figures.

Lilac has moved in fair shape, especially first-class stock; but there has been considerable poor quality sent in lately. Myosotis was in good demand for St. Valentine's day. The violet market also got a boost.

Hadn't those twenty-eight violet growers at Rhinebeck better pause a bit before putting up the contemplated additions? Overdoing the market should be made a high crime and misdemeanor. It is ruination to all concerned. Get together! Get together! Not only violet growers, but everybody! Stop overdoing!!

BOSTON MARKET REPORT

Trade is decidedly improved this week. The supply of flowers generally has not decreased any and the healthier market is entirely attributable to the better demand. Very little, if any change in prices has taken place, although it would be fully in keeping with past seasons if, now, in the very height of the winter season, a stiffening up should be experienced. The grower, who is not succeeding in swinging the balance onto the favorable side of the ledger now, has good cause for apprehension as, after one of the steadiest winters on record, warm days with abundant sunlight and the consequent profuse blooming of all greenhouse crops will soon tear present values to pieces. In other years under the conditions prevailing this season, up to the present time the conditions would have approached starvation in the flower market. That it is not so this year must be interpreted as resulting from the greatly increased supply reaching this market. Valentine's Day business was very good in the city, and the out-of-town business coming to the wholesalers indicated that the country demand was also brisk. Violets and carnations had the best special call and roses also did well. Carnations are better in quality than heretofore, split calyxes having almost disappeared. American Beauty roses are not to be had in any quantity or in choice grades. They are exceedingly scarce.

LOUISVILLE MARKET REPORT

Business conditions the past week have been satisfactory, with the possible exception of a day or two, the weather having been so bad that very few could be seen walking about. Carnations of good quality are coming in in fair quantities, but the supply of the better grade is not sufficient for the demand. The supply and demand for roses is satisfactory, although the quality is not any too good. Mignonettes have not been demanded much recently, although the quality is very good and they are easily secured. The demand and quality of lilies of the valley are very good. Freesias have begun to come in, and they can be had in adequate quantities. The quality of jonquils, Dutch hyacinths, tulips, etc., is very good, and the demand so far has been all right. Violets sell well, the quality being good, and they can be had in adequate quantities.

NEW YORK MARKET REPORT

Trade conditions somewhat more favorable and averages likely to be better. Supply of American Beauty not yet much increased; demand rather slow, but showing signs of improvement. Carnations very abundant with prices weak. Violets moving rather more satisfactorily.

CHICAGO NOTES

It appears that our Bluebeard, Johann Hoch, the man of many wives, may also have tried our field. From an Associated Press dispatch we learn that in 1903 a man answering his description applied to Mrs. W. Rummler, West Nyack, N. Y., for a job as foreman at her greenhouses. They were married and in six months he disappeared with $6,000 of her money.

The following bulb men have visited Chicago this week:

Mr. Colyn, Holland; M. Tegelaar, Lies, Holland; H. F. Henry of Henry & Lee, New York; B. Suzuki of Suzuki & Iida, New York and Yokohama, Japan.

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TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 11, 1905.	First Half of Week ending Feb. 18, 1905.
ROSES		
Am. Beauty, fan. and sp	..... to 75.00	40.00 to 60.00
" extra	25.00 to 35.00	25.00 to 35.00
" No. 1	8.00 to 15.00	15.00 to 20.00
" Lower grades	2.00 to 4.00	2.00 to 8.00
Bride and Maid, fan. and sp	12.00 to 15.00	10.00 to 12.00
" " extra	8.00 to 10.00	6.00 to 8.00
" " No. 1	5.00 to 6.00	4.00 to 6.00
" " Lower gr	3.00 to 4.00	2.00 to 3.00
Liberty, fan. and sp.	35.00 to 40.00	35.00 to 50.00
" extra	12.00 to 20.00	12.00 to 15.00
" No. 1	6.00 to 14.00	6.00 to 8.00
" Lower gr	2.00 to 3.00	2.00 to 5.00
Golden Gate, Ivory, Chatenay: Best	12.00 to 15.00	12.00 to 15.00
Medium	6.00 to 8.00	6.00 to 8.00
Culls	3.00 to 4.00	3.00 to 4.00
CARNATIONS		
Fancy Class	4.00 to 6.00	3.00 to 5.00
General Class	1.50 to 2.50	1.50 to 2.00
Lower Grades	.50 to 1.00	1.00 to 1.25
VIOLETS		
Special	.40 to .75	.50 to .75
General	.25 to .40	.20 to .40
Single	..... to	.25 to .50
ORCHIDS		
Cattleyas	25.00 to 75.00	25.00 to 75.00
Cypripediums	12.00 to 15.00	12.00 to 15.00
BULBOUS		
Lilies	10.00 to 12.00	8.00 to 12.00
Lily of the Valley	1.50 to 3.00	1.50 to 4.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Paper White Narcissus	..... to	1.50 to 2.00
Trumpet Narcissus	2.50 to 4.00	2.00 to 4.00
Tulips	1.50 to 5.00	2.00 to 5.00
Callas	8.00 to 10.00	8.00 to .....
MISCELLANEOUS		
Mignonette	1.00 to 6.00	2.00 to 10.00
Sweet Peas	1.00 to 1.50	1.00 to 2.00
Adiantum Cuneatum	..... to 1.00	1.00 to 1.25
" Croweanum	..... to 1.50	..... to 1.50
" Farleyense	..... to 10.00	..... to 10.00
Smilax	6.00 to 12.00	12.00 to 16.00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" " bunches	20.00 to 40.00	20.00 to 25.00
" Sprengeri "	20.00 to 35.00	20.00 to 35.00
	..... to	..... to .....
Lilac, per bunch	..... to	.75 to 1.00

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Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
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Fancy home grown Carnations a specialty
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Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

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Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

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55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
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Wholesale Florist
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Wholesale Florist
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CAREFUL PACKING and SHIPPING
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BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

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WHOLESALE AND COMMISSION FLORIST
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Tel. No. 956 Madison Square
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TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI	BALTIMORE Feb. 14	BUFFALO	PITTSBURG Feb. 14
ROSES				
Am. Beauty, fan. and sp.	..... to	..... to	..... to	50 00 to 65.00
" extra	..... to	40 00 to 50 00	..... to	30.00 to 40 00
" No. 1	..... to	20 00 to 30 00	..... to	15 00 to 25.00
" Lower grades	..... to	5.00 to 15 00	..... to	10 00 to 12.00
Bride and Maid, fan and sp.	..... to	..... to	..... to	12 00 to 15.00
" " extra	..... to	..... to 10 00	..... to	8.00 to 10.00
" " No. 1	..... to	..... to 8 00	..... to	5.00 to 6 00
" " Lower gr.	..... to	5.00 to 6 00	..... to	4.00 to 5.00
Liberty, fan. and sp.	..... to	..... to	..... to	15.00 to 20.00
" extra	..... to	..... to	..... to	8 00 to 10.00
" No. 1	..... to	..... to	..... to	5 00 to 6.00
" Lower gr.	..... to	..... to	..... to	3.00 to 4.00
Golden Gate } Best	..... to	..... to 10 00	..... to	..... to .....
Ivory { Medium	..... to	7.00 to 8.00	..... to	4.00 to 10.00
Chatenay } Culls	..... to	5.00 to 6.00	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to	3.00 to 5 00	..... to	4.00 to 6.00
General Class	..... to	1.50 to 2.50	..... to	2 00 to 3 00
Lower Grades	..... to	.75 to 1.00	..... to	1.25 to 1.50
VIOLETS				
Special	..... to	..... to .75	..... to	..... to .....
General	..... to	.50 to .60	..... to	.75 to 1 00
Single	..... to	.50 to .75	..... to	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .50
BULBOUS				
Lilies	..... to	10 00 to 12 50	..... to	17 00 to 20 00
Lily of the Valley	..... to	3 00 to 4 00	..... to	3.00 to 4 00
Roman Hyacinths	..... to	2 00 to 3 00	..... to	2.00 to 4 00
Paper White Narcissus	..... to	2.00 to 3 00	..... to	3 00 to 4.00
Trumpet Narcissus	..... to	..... to 3 00	..... to	3 50 to 6 00
Tulips	..... to	3 00 to 4 00	..... to	3 00 to 5.00
Callas	..... to	6 00 to 10 00	..... to	15 00 to 20 00
Freesia	..... to	..... to	..... to	3 00 to 4 00
MISCELLANEOUS				
Mignonette	..... to	3 00 to 4 00	..... to	..... to .....
Sweet Peas	..... to	..... to 1.00	..... to	..... to 1 00
Adiantum Cuneatum	..... to	..... to 1 00	..... to	..... to 1 00
" Croweanum	..... to	..... to	..... to	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	..... to	15.00 to 25 00	..... to	12.50 to 20 00
Asparagus Plumosus, strings	..... to	25.00 to 50.00	..... to	..... to 50 00
" " bunches	..... to	25.00 to 50.00	..... to	25.00 to 50 00
" Sprengeri "	..... to	25.00 to 50.00	..... to	25.00 to 50 00
Freesia	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	..... to	..... to .....

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

The Vick Seed Company has been incorporated at Rochester, N. Y., by C. H. Vick, F. B. King and W. T. Fonda.

The situation as the Boston seedsmen find it, is exceedingly satisfactory. At present the business is well ahead of last year's business; people are buying more, and so far all the dealers are well pleased with returns from their catalogues, considering the time they have been out. Representatives of Philadelphia seed houses who have been here intimate that they do not anticipate as good a season as the last, but the reverse is generally true in Boston and all present indications would seem to justify this confidence.

The freight blocade on the N. Y. Central and N. Y., N. H., & H. R. R. is making no end of trouble for merchants in New England and the seedsmen are not escaping. A car started from Le Roy, N. Y., for a Boston seed house on January 19th has not yet (February 14th) arrived. The N. Y. Central and its Boston line, the B. & A., are practically out of commission and have been compelled to divert large quantities of freight to the Fitchburg R. R., with the result that a line of freight cars practically unbroken extends from Boston to the western extremity of the State.

Onion sets last year were a most unsatisfactory crop. When onion-set harvesting was due, the weather was most unfavorable, intermittent rains occurring every day or two and sets were badly damaged. An advance in price is anticipated. Even now, jobbers are practically holding yellows at $2.25 to $2 50 a bushel and whites at $3 to $3 50, and do not care to sell white at these figures unless a certain proportion of yellow are ordered with them. The whites are keeping very poorly, there being considerable smut and the prospects are that they will reach the values of last year by the time the planting season comes on.

By decree of the Provisional government of Venezuela, maize or Indian corn, red beans and French or kidney beans imported to that country are exempt from custom house duties.

On account of the increased price of the minor grains raised in the country, owing to the loss of crops for lack of rain, a decree has been promulgated by the Provisional Government, providing that after January 3, 1905, "el maiz, las caraotas y frijoles" (maize or Indian corn, red beans, and French or kidney beans) imported through the custom-houses shall be exempt from duties so long as the government shall deem necessary, of which determination there shall be forty day's notice given.

There is more and more disappointment every week with bean deliveries. Growers who reported a certain percentage a few weeks ago are reporting failures now, especially on the Wax varieties, which are very hard to secure. The expense of picking was heavy, the quality of the crop generally being so poor, and the finished product shows a shrinkage of ten or twelve pounds to the bushel, on the picking table. Early frosts and unfavorable weather at harvesting time compelled a heavy waste in the crop.

Of sweet corn, most seed houses feel there is to be more than enough to go around this year and this commodity is liable to find a slow market. One of the largest jobbers has been offering considerable surpluses but still some varieties are reported failures on account of improper curing, whereby vitality has been injured and the seed is not in good merchantable condition. Among the varieties reported as failures are Perry's Hybrid, Hickox, Old Colony, Mammoth, and Egyptian. The canners down in Maine lost most of their seed stock by the early freeze last September, and in all probability now that the canners' convention is over, they will be heavy buyers of Crosby, but they will be more critical than was the case in the recent panicky years.

Catalogues Received

The M. G. Madson Seed Co., Manitowoc, Wis. Handsome cover in colors. Filled with good things, including many that are new.

Hoopes, Brother & Thomas, West Chester, Pa. Semi-annual trade list of fruit and ornamental trees, shrubs, and hardy border plants.

Arthur Cowee, Berlin, N. Y. Catalogue of Groff's New Hybrid Gladioli. The title tells the story. The goods are known all over the world.

W. W. Barnard & Co., Chicago. No elaborate covers but chock-full of good things exemplifying the motto of the house, "The highest quality at a fair price."

L. A. Watkins Mdse. Co., Denver, Colo. Annual catalogue of seeds and agricultural implements. Lists everything wanted by the farmer or his wife. Cover in glowing colors.

Schlegel & Fottler Co., 26 and 27 South Market St., Boston. Spring catalogue of seeds, plants, and bulbs. Well printed and illustated, and its contents fully up to the standard of this well-known house.

W. A. Manda, Inc., South Orange, N. J. "Partial stock list of everything pertaining to Horticulture." Among the novelties catalogued is a set of new hardy Scotch pinks which will be a welcome addition to the herbaceous garden.

The Wm. H. Moon Co., Morrisville Penn. The Horticultural Art Book. A beautiful album filled with superb half-tone illustrations of park and garden plantations of conifers and deciduous ornamental trees and flowering shrubs. Irresistible as a garden promoter. Send for it and be happy.

Everblooming!

In addition to being a fine subject for the Holidays the

Christmas Fuchsia!

will also prove valuable at other seasons as it is practically everblooming!

35c. ea., $3.50 doz.
$1.25 per 100
from 2½-in. pots

READY APRIL 15TH

CUT THIS OFF AND MAIL

G. C. Watson
PHILADELPHIA - -

Dear Sir:--

Please enter my order for .....plants of the *Christmas Fuchsia* to be delivered soon as ready, strong, healthy stock from 2½-inch pots.

Name

Address

How ship

Mention HORTICULTURE when you write.

Market Gardeners and Florists

If you want choice stocks of

Seeds

for indoor or outdoor culture

try Michell's

Twenty-nine years' experience behind every order filled. SEND FOR OUR

WHOLESALE LIST

for Florists and Market Gardeners



HENRY F. MICHELL CO.

MARKET ST., PHILADELPHIA

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AT ST. LOUIS A **GRAND PRIZE** WAS AWARDED ON VEGETABLES, THE PRODUCTS OF — **BURPEE'S SEEDS!**

IF you garden you want THE BEST,—and we shall be pleased to mail you BURPEE'S FARM ANNUAL FOR 1905, an elegant **NEW BOOK OF 178 PAGES,** which tells the plain truth, with hundreds of illustrations, beautiful colored plates, and describes **SUPERB NOVELTIES** of unusual merit. If you garden for profit or are a florist you should also have BURPEE'S "BLUE LIST" or Wholesale Price-List for Market Gardeners and Florists.

WRITE TO-DAY! A POSTAL CARD WILL DO, WHILE IT IS SUFFICIENT TO ADDRESS SIMPLY

BURPEE, Philadelphia

W. ATLEE BURPEE & CO., The World's Largest Mail Order Seed Trade

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THOS. J. GREY & CO.

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Farm, Garden and Lawn Supplies

We carry in stock Duplicate Parts Leading Machines

32 So. MARKET ST., BOSTON

Sow Now

Lobelia Crystal Palace Compacta
1-8 oz., 25c.; oz., $1.50

Lobelia Erinus Gracilis
1-8 oz., 10c.; oz., 40c.

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12 and 13 Faneuil Hall Square, Boston, Mass.

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Silver Medal.—Mass. Horticultural Society, 1904.

Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

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VAUGHAN'S SEED STORE, Chicago and N.Y

SPECIAL OFFER

A FEW THOUSAND FIRST SIZE

Double Von Sions

At $9.00 per thousand while they last.

Best English Cyclamen Seeds

In named varieties, 50c. pkt. $1.25 per 100 seeds.

Boston White Globe Stock

Best for inside growing. Pkt., 10c.; large pkt., 50c.; ounce, $5.00.

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26 & 27 So. Market St., Boston, Mass.

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LILY OF THE VALLEY

PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for - - - $24.00
Two or more cases at - $7.50 per 1000

J. M. THORBURN & CO.,

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New Crop Flower Seeds for Florists

Catalogue and Price Lists mailed free

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Seeds, Florists' Supplies, and Agricultural Hardware

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Advertising costs good money. We are doing our best to make it remunerative to our patrons.

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HORSESHOE BRAND

and PLANTS

Ralph M. Ward & Co.

17 Battery Pl. New York

Quality Seed Bulb Plant **S**

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Arthur T. Boddington

342 West 14th Street *NEW YORK*

What amount do you propose to spend in advertising this year? Perhaps we can make it cover the entire ground for you and get results beyond your expectation.

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W. H. Siebrecht,
Astoria, N. Y.
Lily of the Valley and all Bulb Flowers at Market Rates, all season through.

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Rooted cuttings, all popular varieties. C. Warburton, Fall River, Mass.
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Variegated Lawson, White Lawson, Daheim, Fiancee, Cardinal, Fred Burki, Victory, and all standard varieties.
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Rooted Cuttings and Pot-Grown Stock.
Philadelphia, Pa.
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Robert Craig, Lieut. Peary, Ethel Ward, The President, White Lawson, and all standard varieties. Rooted Cuttings.
Cottage Gardens Co., Inc.,
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Patten & Co.,
Tewksbury, Mass.
Rooted Cuttings of all choice varieties.

Rooted Carnation Cuttings.
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Rooted Carnations from Flowering Stems only.
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GRAPE VINES, HOTHOUSE.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
Strong Planting Canes, all best sorts, each $3.50.
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GREENHOUSE BUILDERS AND MATERIAL.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
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GREENHOUSE BUILDERS AND MATERIALS.
Hitchings & Co., 233 Mercer St., New York, N. Y.
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John C. Moninger Co.,
111–125 Blackhawk St., Chicago.
Hotbed sash and construction lumber.

HARDY FERNS AND SUPPLIES.
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IMPORTING HOUSES.
August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
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LILY OF THE VALLEY PIPS.
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Vaughan's Seed Store,
Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

ORCHID PLANTS.
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Julius Roehrs, Rutherford, N. J.
Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.

POTATO, NOROTON BEAUTY.
J. M. Thorburn & Co., New York.
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C. M. Niuffer,
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Rose Plants. Write for prices on Hbyrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
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Montrose Greenhouses,
Montrose, Mass.
All the best varieties.
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John Scott,
Keap St. Greenhouses,
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W H. Gunther, New York.
Chas. Smith, New York.
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Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
John I. Raynor, New York.
W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York.
Jos. S. Fenrich, New York.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
George A. Sutherland Co., Boston.
James Hart, New York.
Traendly & Schenck, 44 W. 28th St., New York.
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J. K. Allen, 106 W. 28th St., New York.
N. F. McCarthy & Co., 84 Hawley St., Boston.
Wm. F. Kasting, Buffalo, N. Y.
Thos. Young, Jr., 43 W. 28th St., New York.
S. S. Pennock, The Wholesale Florist of Philadelphia.
Fred Ehret, 1403 Fairmount Ave., Philadelphia.
Established 1890.
Pittsburg Florist Ex., Pittsburg, Pa.
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Directory of Clubs and Societies

Secretaries are respectfully requested to promptly notify HORTICULTURE of any changes of officers of their respective societies.

AMERICAN CARNATION SOCIETY. — Pres., Peter Fisher; Vice-Pres., J. H. Dunlop; Sec'y, Albert M. Herr; Treas., Fred Dorner, Jr.

AMERICAN ROSE SOCIETY. — Pres., Alexander Montgomery, Natick, Mass.; Vice-Pres., F. R. Newbold, Poughkeepsie, N. Y.; Sec'y, William J. Stewart, Boston; Treas., John N. May, Summit, N. J. Annual meeting at Horticultural Hall, Boston, March 23–26, 1905.

CANADIAN HORTICULTURAL ASS'N. — Pres., G. A. Robinson; 1st Vice-Pres., W. Suckling; 2d Vice-Pres., C. G. Johnson; Treas., H. Simmers; Sec'y, A. H. Ewing. Next annual meeting in Montreal, probably in August.

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COLORADO SOCIETY OF FLORICULTURISTS, Denver, Colo. — Pres., John Satterthwaite; Treas., Mrs. J. M. Johnson; Sec'y, J. A. Valentine. Annual meetings, third Thursday in January.

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GARDENERS' AND FLORISTS' CLUB OF BOSTON. — Pres., James Wheeler; Vice-Pres., M. A. Patten; Sec'y, W. N. Craig; Treas., Ed. Hatch. Meetings at Horticultural Hall, Boston, on third Tuesday evening of each month.

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HARTFORD FLORISTS' CLUB. — Pres., J. F. Huss; Vice-Pres., J. F. Coombs; Treas., Robert Schrivener; Sec'y, W. W. Hunt. Meetings every second and fourth Friday in month.

HOLYOKE HORTICULTURAL SOCIETY, Holyoke, Mass. — Pres., E. A. Reed; Treas., Chas. E. Mackintosh; Sec'y, Geo. H. Sinclair. Meetings first Wednesday in the month; Exhibition, Rose show in June.

INTERNATIONAL SOCIETY OF ARBORICULTURE, CONNORSVILLE, IND. — Pres., William J. Palmer; Vice-Pres., Henry J. Elwes; Sec'y-Treas., John P. Brown, Connorsville, Ind.

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NEW BEDFORD HORTICULTURAL SOCIETY, New Bedford, Mass. — Pres., Wm. Keith; Vice-Pres., Frank C. Barrows; Treas., Wm. A. Gibbs; Sec'y, Joseph C. Forbes. **Meets second Thursday of each month.**

NEW HAVEN CO. HORTICULTURAL SOCIETY, CONN. — Pres., Robert Pryde; Vice-Pres., John Murray; Sec'y, Thomas Pettit. Meeting first and third Tues days of the month.

NEW JERSEY FLORICULTURAL SOCIETY. — Pres., D. Kindsgrab; Vice-Pres., Arthur P. Caparn; Sec'y, William J. Bennett; Treas., Malcolm MacRorie.

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NORTH SHORE HORTICULTURAL SOCIETY, Manchester, Mass. — Pres., P. R. Sanborn; Vice-Pres., W. B. Jackson; Treas., James McGregor; Sec'y, James Salter; Fin'l Sec'y, Herbert Shaw. Meetings first and third Fridays of each month.

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PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB. — Pres., T. P. Langhans; Vice-Pres., E. C. Reineman,; Sec'y, H. P. Joslin; Asst. Sec'y, E. C. Ludwig; Treas., Fredrick Burki; Executive Committee, P. S. Randolph, John Bader, Fredrick Burki.

SOCIETY OF IOWA FLORISTS, Des Moines, Ia. — Pres., J. T. Temple; Vice-Pres., R. L. Blair; Sec'y, Wesley Greene; Treas., G. A. Heyne.

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TARRYTOWN HORTICULTURAL SOCIETY, Tarrytown, N. Y. — Pres., James Ballantyne; Vice-Pres., Joseph Bradley; Sec'y, Edward W. Neubrand; Cor. Sec'y, Thos. A. Lee; Treas., James T. Lawrie. Meetings last Thursday of each month.

TUXEDO HORTICULTURAL SOCIETY. — Pres., Wm. Hastings; Vice-Pres., Thos. Murray; Sec'y, James MacMachan; Treas., George Stewart. Meetings first Tues. after the first of each month.

UTICA FLORIST CLUB. — Pres., F. J. Baker; Vice-Pres., Seward Hakes; Sec'y, J. C. Spencer; Treas., C. F. Seitzer. Meeting first Thursday of the month. Chrysanthemum meeting in November; Carnation meeting in February; annual outing and clambake in August.

WESTCHESTER COUNTY HORTICULTURE SOCIETY, Mount Kisco, N. Y, — Pres., A. L. Marshall; Vice-Pres.; Wm. Wills, Katonah; Sec'y, Herbert A. Spavins. Meets every month; annual reunion at Mount Kisco.

WORCESTER COUNTY HORTICULTURAL SOCIETY, Worcester, Mass. — Pres., O. B. Hadwen; Sec'y, A. A. Hixon.

THE CHRYSANTHEMUMS OF M. CALVAT

From time to time we read that the new varieties of this well-known raiser are not so good as formerly, yet his latest set includes one at least as fine as any previously introduced. I refer to Chrysanthemiste Montigny, a light yellow, of magnificent proportions and comely shape. The florets incurve slightly, but their great length causes them to fall away, so that we have a drooping form, with each petal twisting in the shape of a Catherine wheel. Being easy to grow and constant, it will soon become a favorite with exhibitors.

This raiser has probably made the mistake of sending out too many varieties. Each year his set numbers about thirty, and a very considerable number prove to be useless; hence there is not the same desire among exhibitors to possess them until some of the trade growers sift the gold from the dross, as it were. But at the recent shows I have been struck with the great beauty of the Calvat varieties, and venture to name a dozen that would be difficult to match by any other raiser, or, for that matter, a combination of raisers: — F. S. Vallis, C. Montigny, Madame P. Radaelli, Madame Carnot, Mons. Chénon de Léché, Madame Gustave Henri, President Viger, Mrs. J. Lewis, Lieut.-Col. Ducroiset, Souvenir de Calvat Père, Jean Calvat, Marquis V. Venosta. — H. S. in *Journal of Horticulture.*

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Carnations in Modern Houses

It may be that carnations will flower as freely and develop as high a type of bloom in an old-fashioned, two-bench sash-house as in a more modern one. Soil, temperature, and moisture can be regulated in almost any house; but the degree of light and manner of air-circulation depend upon construction. If these have an essential influence upon the health, thrift, and product of the plant, then such a house as that of C. E. Dickerman at Harrison Square, Mass., would naturally bring results more completely under control of the grower.

This is a Hitching's iron house of the most improved type. It is 55 × feet, with side walls 6 feet high and a depth of 24 feet, from ridge to floor. Its width, height and style of frame allow the greatest degree of light obtainable under a roof. Air-circulation is also possible which is not to be had in a more limited space.

The house has eight benches running the entire length, with about one thousand plants in each bench. White Lawson, Flamingo, Enchantress, Fair Maid and Mrs. T. W. Lawson are the principal varieties grown. Enchantress, White Lawson and Flamingo are at the present time very fine, not all exhibition flowers, but of high grade from a commercial standpoint. Mr. Matthews, Mr. Dickerman's grower, speaks highly of White Lawson, its one imperfection being that during the dark months it has a tinge of pink when it first opens. He finds Flamingo very desirable for a select retail trade. Enchantress also promises well. The carnation is more perfectly developed today than ever before, and the tendency of growers has been towards houses of which Mr. Dickerman's is an advanced type.

GEORGE H. HIGGINS.

FIRST-CLASS CERTIFICATES AWARDED TO NEW DAHLIAS IN 1904

Mrs. Hobbs, show, pure white (Hobbs). The following are cactus varieties: — Alexander, dark crimson flushed maroon (Mortimer); Antelope yellow, suffused with bright salmon (Stredwick); Cockatoo, white, with canary yellow base, outer petals changing to fawn (Keynes); Ella Kraemar, rosy-pink with lighter base (Stredwick); Fairy, pure white (Stredwick); Harbor Light, orange-red, tipped flame color (Hobbies); Helen Stephens, yellow (Hobbies); J. B. Riding, rich yellow base, shading to deep orange (Stredwick); Jeannette, clear buttercup yellow (Shoesmith); Lord of the Manor, scarlet, with greenish-yellow base (Seale); Miss Dorothy Oliver, white, tipped green, with primrose base (Shoesmith); Rosy Morn, peach blossom, with paler base and center (Keynes); Thomas Parkyn, light terra-cotta (Stredwick); Tricolor, lower half of petals pale yellow, upper half white, striped and speckled scarlet (Stredwick). Little Mary, pompon, deep crimson, with darker center (Seale); Neatness, pompon, salmon, with yellow center (West). Dorothy, single, pure white, margined rosy-crimson (Cheal); Mikado, single, crimson-scarlet, with yellow band, edged red (Seale); Miss Bastone, single, white, edged deep yellow (Seale); Unique, single, amber, with crimson ring (Seale). — *Journal of Horticulture.*

Please send us the names of your Friends who might be interested in

Horti-culture

and we will Send to Each a Sample Copy

News Notes

B. Eschner, of M. Rice & Co., Philadelphia, was a recent visitor in Louisville.

A rare specialty at George A. Sutherland's Boston, this month is the beautiful Cherokee rose.

E. H. Howland, Holyoke, Mass., finds orchid blooms gaining ground steadily as florists' flowers in his section.

The greenhouses of Noble Pagett at Unadilla, N. Y., were totally destroyed by fire on the morning of February 3d, No insurance.

Pratt & Giger, New London, Conn., have thoroughly renovated their store at 4 Main Street, since the fire of a few days ago, and reopened for business.

A. J. Schmutz reports a rapidly growing plant trade in and around North Adams, Mass. Cyclamens have been the leaders in flowering plants this season, thus far. All the primulas also show up well in the winter sales.

The order of the United States Government removing duty charges from all imports for the Lewis and Clark Exposition has now gone into effect. While exhibitors from foreign countries will be permitted to import their wares duty free, the strictest regulations will be enforced to see that the order is not taken advantage of by smugglers.

Personal

The friends of George Shield, foreman for A. Leuthy & Co., Roslindale, Mass., will be glad to learn that he is recovering satisfactorily from the operation he underwent at the hospital last week.

Julius Roehrs of Rutherford, accompanied by J. M. Keller, Bay Ridge, N. Y., has gone on a southern trip for recuperation after his recent illness. The gentlemen started on Friday, February 10, on the Clyde Line steamer to Charleston and will also stop at Georgia and Florida points on the way to Havana.

Charles Faucett, who has been foreman for Mrs. J. S. Johnson at Boulder, Col., for some time has bought out his employer and will continue in the same location on his own account. He has the best wishes of many firm friends.

GREENHOUSE MATERIAL
CLEAR RED CYPRESS
IT PAYS TO PAY FOR QUALITY
JOHN C. MONINGER CO.
STANDS FOR QUALITY
Our Extensive Trade
which is steadily increasing, is indisputable evidence that our
Material, Prices, and Services are Right
OUR 78 PAGE ILLUSTRATED CATALOGUE WILL BE MAILED UPON RECEIPT OF 6 CENTS TO COVER POSTAGE
ESTIMATES AND SKETCHES CHEERFULLY FURNISHED. MAIL US YOUR INQUIRIES.
111-115 BLACKHAWK ST. cor. HAWTHORNE AVE. CHICAGO, ILL.
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LIST OF PATENTS

Issued February 7, 1905.

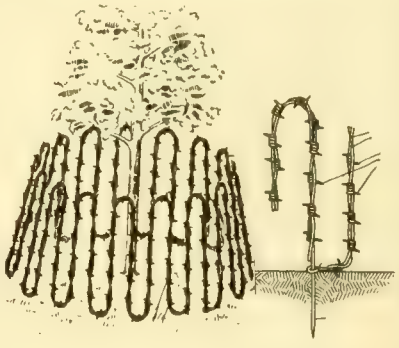
781,864. Evaporating Apparatus. William C. Anderson, San José, Cal.

781,928. Potato-Digger. August Anderson, Nelson, Minn.

782,048. Tree-Protector. John A. Perou, Los Angeles, Cal.

A tree-protector consisting of barbed wire formed into a series of reverse loops, the protector being supported by the lower ends of said loops.

The invention is especially applicable for use in growing eucalyptus trees,



which are set out in great numbers for commercial purposes when very small and need protection until they have attained the height of about two feet, after which they are seldom molested owing, probably, to increased bitterness of taste. When a plantation has reached this stage, the protectors can be taken away and used in other places.

782,204. Process of Separating Seeds. Thomas M. Prine, Toledo, O.

Copies of any of the above patents can be procured by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G, Washington, D. C., by mentioning HORTICULTURE.

DUTY ON GLASS

Editor HORTICULTURE:

I have noticed that there is some talk of agitating the question of the tax on imported greenhouse glass which I earnestly believe should be carried forward till we get the required relief. I think a good way to do that would be for the different florists' societies throughout the country to write, either through their president or secretary, to their representative at Washington; also all the commercial men. I think it would have a telling effect very soon. — W. W.

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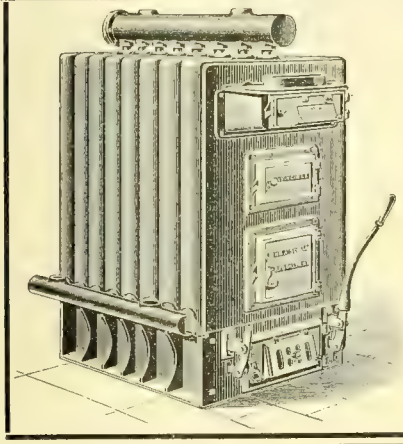
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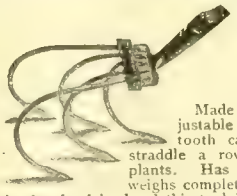
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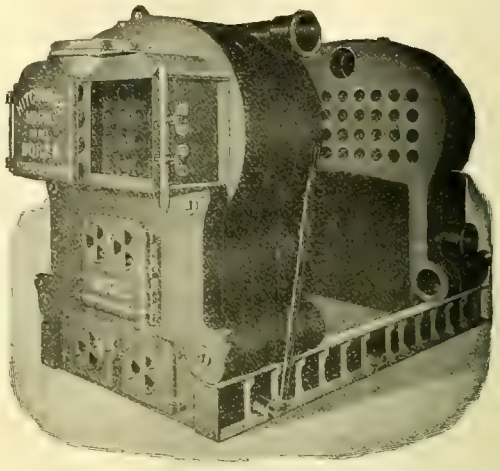
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HORTICULTURE

Vol. I FEBRUARY 25, 1905 No. 13



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VOL. I | FEBRUARY 25, 1905 | NO. 13

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NEXT WEEK'S NUMBER will contain valuable contributions by A. Hans on Aspleniums, George M. Anderson on Cinerarias for Easter, and R. L. Adams on Mushroom Culture.

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Our 1905 Wholesale Catalogue of CHRYSANTHEMUMS and other Tender and Hardy Plants has been mailed. If not received, drop us a postal.

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Needed every day by the UP-TO-DATE FLORIST

Send for Wholesale List of established plants

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ORCHIDS

Arrived in fine condition, Cattleya Mendelii, Dendrobium Wardianum, Lælia anceps and Oncidium tigrinum unguiculatum.

We also offer a lot of well-grown bulbs of Calanthe Veitchii.

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ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

California PRIVET

1, 2, and 3-Year

These are my specialties. I grow them right and to Sell. Let me quote you.

Asparagus ROOTS

One-Year

C. A. BENNETT, Robbinsville, N. J.

Fruit-Growing for Ornament and Profit

The pleasing and interesting narrative of Mr. Finlayson's travels in foreign lands, in a resent issue of HORTICULTURE, especially that part describing the fruit-lined highways of Germany, ought to suggest many things to us in this country with regard to outdoor fruit growing.

As Mr. Finlayson says, in Germany they plant fruit trees along the roadsides for the two fold purpose of ornamentation and profit. While the thrifty Germans may consider the first purpose the main one, yet their thrift and the results would seem to indicate that they aimed at a happy ultimate combination of profit and pleasure.

That the same results can be attained in this country is plainly evident to any one who may have seen fruit trees of various kinds grown outdoors in a few places here. There are many places where a trellis could be erected to grow peaches on, and if these trees are trained in the same manner as those grown indoors they will not only look well, but they will bear enough good fruit to more than pay for the little extra trouble necessary to make what would otherwise be an ugly bare wall or fence look beautiful. Apart from the fruit such trees yield, while in bloom they are worth fully as much to look upon as are many of the shrubs grown for their flowers alone.

Not only peaches but pears and apples can be planted and grown so as to be an ornament to the environments. This fact was fully impressed on me last season on passing the vegetable and flower gardens on the Berwind estate at Newport. There, on both sides of a long narrow path leading from the street to the greenhouses, is a trellis about four feet high on which are pear and apple trees beautifully trained, the whole making an appropriate entrance to this section of the grounds, besides affording much better fruit than if the trees were where they would very likely be more or less neglected. I do not mean by this that standards will not also repay one for all the extra care bestowed on them, but that such care is seldom bestowed on fruit trees unless the reason for their existence is a desire to beautify some spot and it is only by giving fruit trees much attention that their appearance is pleasing.

On this place many years ago there were planted a number of peach trees (perhaps forty) alongside (on the south) a stable wall — a wall previously covered with Ampelopsis Veitchii. These trees grew very well and bore medium-sized fruit, but with the snow from the roof and the high winds much of the fruiting wood was broken so that it was decided to erect an iron trellis along and fastened to the wall. The trees were then bent back and trained, and the results were not only fruit in greater abundance and of larger size but in addition a screen more pleasing to look at than the ampelopsis-covered wall. These trees thrived very well for about five years until that deadly pest, the San José scale got its work in. They were rooted out and young trees put in their places; trees that next year will yield a good deal of fruit.

Trees trained on a trellis outdoors are pruned and tied in during the late winter or early spring in the same manner as those in a house; likewise, the same processes of disbudding and thinning the fruit, and tying in only enough young wood for next year's crop. Always encourage vigorous young shoots from near the bottom, for if care is not taken to do this the trees will before long have a somewhat naked appearance.

Besides such fruits as we have already mentioned, small fruits, especially gooseberries, could be profitably grown in many localities. The samples of this fruit often seen in fruit stores are almost unrecognizable, so small are they, while on the other hand we have seen just as fine Industry gooseberries on bushes — in the garden of Commodore Gerry — as we have ever seen anywhere. Red currants are also grown there to perfection. We mention this only to suggest that the idea that these and other fruits are unsuited to our climate, is to a great extent unwarranted, and that if people were less predisposed to favor this notion there would be more of these fruits cultivated and fewer failures noted.

David McIntosh.

Winter Strawberries

In nearly all towns there is a demand, though often limited, which is increasing every year, for fruit out of season, for some little luxury during the cold, dreary winter days. People in moderate circumstances, as well as the very rich, are willing to pay a good price, and often a fancy one, for things that will tempt eye and appetite. And what is more pleasing than a dish of nice, ripe, juicy strawberries and cream, particularly when the thermometer stands at zero outside.

The growing of winter strawberries is not a difficult matter and the florist having a private trade can easily raise a few as a side-issue, which will bring him a handsome return for the little space and trouble necessary. After the plants have begun to bear they can be kept with other cool-weather plants, if given a place near the glass, as no special conditions are required.

The plants are taken during the summer after the first of July. Any healthy plantation will give an abundance, but the best are those taken from a field set in the spring or the fall before upon rich moist soil. Keep all flower stalks off, and pinch back the runners until about the first of July, when a few main runners are allowed to grow. These runners are to provide the plants for winter forcing. After the runners get a good start, 2½-in. pots filled with rich compost are sunken under the joints or nodes, the runners being held in place with a stick or stones. The

young plants forming are rooted into these pots. Do not let a plant set more than it can safely carry; choose three or four good stocky ones, and let the plant throw all its energy into this by keeping off all other runners. Young plants getting a good impetus remain just so far ahead during the whole season. After a couple of weeks, the pots will be filled with roots, and then the young plants are separated from the old ones, and repotted into 4-in. crocking for drainage. These pots are plunged in the earth and the plants repotted into 6-in. when ready. Give plenty of water, air, and sunshine, and guard against checks of any kind.

Another way to grow the plants is to take young plants in the spring and grow in pots during the summer, repotting when needed until the plants are in eights, in which they will fruit. The future treatment is the same for both lots.

No protection is needed until steady cold weather comes, when they are taken up and put in cold frames, being kept there until time to take inside. During this period they go through a dormant period of rest, which while perhaps not absolutely necessary, is of benefit. No protection is needed in the coldest weather other than the cold-frame glass.

The plants can be brought in any time from the cold-frames, ten to twelve weeks being allowed for the fruit to ripen. If a few are brought in at a time the grower gets a succession. After being taken from the frames they are kept for a few days in a cool place, as a shed or workshop, to thaw out, and then brought into the houses and given a place near the glass. The temperature best suited to them is 40° to 50° at night at first, 10° to 15° higher during the day, gradually increasing to 55° to 60° at night, and a corresponding higher temperature by day during blossoming time. But good results are obtained in ordinary greenhouses if grown with other plants. In five weeks they will blossom and these are fertilized by hand, the operation being repeated on bright days. The best way to do this is to collect the pollen in a spoon and then dust this over the pistils with a fine camel's hair brush, being sure to touch all the pistils, or an imperfect fruit will be the result. After the berries set, place a piece of wire netting under them or fill pots with sawdust in order to keep the fruits off the soil. The berries ripen about five weeks later, and each plant produces eight or ten fruits. Thus eight to twelve pots are required to produce a quart, and these use only two to three square feet of room. As the fruit is worth $2 to $5 a quart it gives a very good profit. Give the plants plenty of water, and a little liquid manure after the berries set two or three times a week. Syringe often for red spider until they bloom, and pick off and burn all leaves infested with "spot."

Most early or medium varieties are suitable for forcing, as Sharpless, Beder Wood, Agricultural, Seth Boyden, etc.

The course of treatment has been given but success is nine parts practice to one part theory. Take up a few plants next season and study out their requirement, aided by these few directions.

For winter decorations pots containing a few berries make one of the best and there is quite a demand for them especially at Christmas time, and at a fair price. For persons interested in their culture I will add, that success can be attained by growing in sunny windows provided that the temperature of the room does not fall below 40° at night.

R. L. Adams.

Success with the Lady Campbell Violet

When Malcolm Orr gave up the Brown houses at Wollaston, Mass., and bought the Miller plant at North Saugus, doubt was expressed among those who knew the circumstances as to the wisdom of the move if he intended to still grow violets. He had made a success the first year at Wollaston and improved on his record each succeeding year, and it was thought that the house, location, and the quality of the soil there were important factors in his success. Mr. Orr thought that all there was at Wollaston could be found elsewhere with important requisites added, especially larger, lighter and higher-roofed houses. He has filled one house 20×125 and one house 20×100 at Saugus with his own stock of Campbell violets, using 6000 plants. One house suffered a little for water before he had his steam pump in order, but the two days preceding Christmas he picked twenty-five thousand violets of a quality equal if not superior to the best double violets that were brought into Boston, and at the present time he is picking from four thousand to seven thousand blooms a day, of the same high quality, and his plants are invariably thrifty and promise the usual increase of bloom as the days grow longer.

In propagating, Mr. Orr begins by the middle of March and finishes before the middle of April, selecting runners, preferably those with some roots, from the best plants, putting them in sandy soil about two inches apart. Sometimes the young plants are transferred to a frame for a while and sometimes to the place in the house where they are to remain. But they are always kept growing. This is the fifth consecutive year that this practice has been followed, and during that time growth has been continuous. When it was dug up the parent plant had generally exhausted its blooming power, but it had healthy foliage and left behind it thrifty growing scions.

The little black fly must be destroyed to obtain the best results, and hydrocyanic fumigation is the only effectual method that Mr. Orr has found. Some years it has been necessary to repeat the treatment two or three times. Plenty of water for the young, growing plants and plenty of light and air with not too low a temperature for the flowering plants, are also some of the methods employed. Constant care has been exercised, as there has been no day during the five years, when the thing thought necessary to be done that day was not forthcoming, with the exception of the short time last fall, when the water supply was interrupted.

What the possibilities of the Campbell violet are, perhaps, is not known, but it is certain that Mr. Orr's stock to-day is of a more highly developed type than it was five years ago.

Geo. H. Huggins

South American Horticulture

2 — SANTOS

From the beach at Santos, two straight avenues run to the city about six blocks apart, perfectly parallel and perfectly level in their entire distance, which is about three miles. Lined right and left with stately palms, they run as they near the city through fine rows of houses, surrounded by pretty and fancy gardens; along the middle part of the avenues, between the beach and the city, is as yet open marsh and bush-country with but an occasional homestead among banana and orange trees. Entering the city the car turns to the left and soon you pass the new public park square on the foot of Rua de Senador Fejon, where the military band plays twice a week in public for two hours. This open air playing in the public park is a delightful as well as educational affair. First, it draws attention to the park in general; it's a pleasure to the eyesight as well as a feast for the ear.

As it is to-day the standard of the military concerts, the art of the buildings, the elaborate bandstand and perhaps a quiet open pavilion-restaurant, together with the decorative style of the surrounding park itself is by no means a small point by which to judge the size and influence of a Brazilian city and perhaps of other South American cities as well. This noble spirit, in regards to public music, can surely be recommended for imitation by all especially interested in the beautifying of natural aspects of cities; because, as cannot be impressed too much, it draws crowds of the people to the park, who get surely interested in the floral features of the same, during the intervals of music, thus creating a more general love and attention to beauty of nature. After the seats around the bandstand are taken up, the crowd left over promenade around and between the nearest lawns and flower-beds, and I never saw anybody leave till all was over and the hour getting late.

The Santos park has two main promenades, the one leading along the four sides of the square shaded by acacias, the other crossing in angles from corner to corner, swinging out in the centre, somewhat, to give room for the bandstand and the seats in front of it. Both stand and seats are placed near the middle of one of the boundary lines; only the promenade runs between them and the street. The floral feature of the park is the pillars and statuary work of alternantheras, the sides of which are pieces of a live floral mosaic. Fancy snake designs of white, red, blue, and yellow colors are laid into the sides of pillars eight feet high, and larger sockets supporting globes a foot and a half in diameter. The globes are perfectly round and even, covered by scarlet, yellow, and green or purple leaves. The plants used are mostly alternantheras, but also lobelias, sweet alyssum, and other carpet-bedders. Again this floral statuary is standing on bases of carpet-bedding of the most showy and fancy kind, with graceful proportioned palms as centerpieces and corners; the whole is tuned off by a quiet, smooth stretch of lawn towards the promenade. This work in carpet-bedding is on one side of the band stand, while on the opposing side is a fine group of canna, musa, caladium, and castor-oil bean. Of Araucaria excelsa there are here, as in every Brazilian park, some very good specimen plants. Further you notice a group of Pandanus Veitchii and utilis, while different well-known palms,— as latania, kentia, etc., are scattered along the shrub border. Santos has another larger and older park, more quiet and with good specimen tropical plants and several squares with unpretentious planting.

On the base of the perfectly flat land tongue — on which, in one corner, the city of Santos is situated and which is crossed by these boulevards from shore to shore, if you figure in the city end streets of the boulevards up to the coffee storesheds on the pier — on the base of this flat, joining with the mountain range along the coast is a set of high, steep hill knots with solid rock foundation half way up on one side, covered by layers of rocky loam on the other and clad in the most fashionable green garb of intertwined tropical foliage and flowers. On top is the pilot signal station and the lighthouse. Climbing up there is as bad as climbing the steps of the St. Peter in Rome on the knees, which has been done for repentance, we are told, because you are on your knees here almost the whole half hour which it takes to get to the top of the knot. The angle up-road is about 45°, so your knees have to make this very same angle at every step in order to keep your body steady up-hill. Considering a hot sunshine of 100° or more, giving no escape except on passing occasionally under a few feathery leaves of taller palms, it's like having a Turkish bath. In order to face the effect of it, the terrible perspiration and heavy breathing, and still be in happy spirits you must have a big aspiration "ad astra" and a longing for natural beauty. And how does it repay the toil? How it pleases? Indeed, well! Any landscape, in the northern moderate climate, compared with it, is as colorless as a flower decoration made out of nothing but ferns, evergreens and foliage of forest trees. Why, there may be fine artistic colors in northern landscape but not of this gayety and brightness and richness! Where is your perfect marine blue sky, your green ocean shore with snowwhite breakers, your brick-red rocks, on and in, the beach, with brown and white seagulls soaring around them? Where in North America is your flat-roofed, white, rose and purple painted city of well proportioned two-story buildings along the river's mouth, between green mountain walls and the ocean, seemingly on the verge of sinking into the water and yet with a tranquil, secure, and quiet aspect?

Seated on your kingly throne under some royal phœnix palms and fanned by higher and cooler ocean winds, you see over the whole city, harbor, beach and islands and the shores on the other side of the river that pours its waters into the Santos harbor. Your eyes rest on trees covered with yellow, red or pink garlands of flowers, and again your eyes wander to some group of palms towering high above the underwood on the top of a mountain. Then again you turn them to the waves of the ocean and watch the incoming of foreign steamers, signaling and answered by the pilot from the flagport near you with hundredfold colored signal flags. Those, the "out going" and the "coming in" of ships of all lands and all nations, are signalled to every office window in the city below you and you realize that you are in the land of the aromatic coffee-tree, in the world's beautiful coffee-harbor Santos.

Gerhard Kleicken.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE

Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

If it is true that "Imitation is the sincerest flattery," then HORTICULTURE bobs a curtsey to her esteemed contemporaries who so soon found in her something to imitate.

We learn with much solicitude of the serious illness of Edwin Lonsdale. No man in the horticultural world has the esteem of his fellows in a higher degree than has Mr. Lonsdale, and all will join with us in the sincere wish for his rapid and complete recovery.

If the Massachusetts legislature is to do anything of value looking to the suppression of the moth pests, no time should be lost in unnecessary talk and red-tape. Spring will soon be upon us, and the best chance for effectual work will then be past. Every day's delay now is a valuable day lost.

The new rose Wellesley was given an opportunity to demonstrate its value in large decorative work, at the Parker House last week, when it was used by Mr. Collins exclusively in the adornment of the mirrors and table on the occasion of a notable banquet. A distinctive qualification of this rose for such uses is its incomparable brilliancy under artificial light, when the petals glow as no other rose of our acquaintance does; another advantage is its excellent keeping qualities. The retailer's part in the popularizing of a new rose is a very important one. If he is so inclined and has the requisite taste, he has the means of advancing a special flower to a position of immediate prominence. Unfortunately, in the past, the retail florist has appeared to favor somewhat the limitation of commercial varieties rather than their multiplication. Wellesley is to be congratulated on its success as a débutante.

Macaulay said that "advertising is to business what steam is to machinery, the great propelling power." Enterprising florists, nurserymen, and seedsmen realize this truth, in common with the rest of the business world. Those who are reluctant to assume the labor and the cost of advertising the goods they have for sale will find sooner or later that it must be done or that they must accept the alternative of seeing their competitors, more progressive than they, rapidly gaining on them, and eventually leaving them far behind. Spasmodic advertising is only a little better than no advertising. Chance sales of surplus stock are all right, in their way, but in the long run the great winner is the man who keeps "everlastingly at it," offering and delivering goods of such quality that his customer once gained will come again and asking only the price the goods are worth. Notwithstanding the astounding development of advertising within the past few years, there is every reason to believe that the future increase in amount and quality will far exceed anything we have hitherto seen.

The list of advertising firms using the columns of HORTICULTURE shows a gratifying growth as the weeks pass. This recognition on the part of the enterprising firms represented, that HORTICULTURE has a special field and constituency whose trade is considered desirable, is very pleasing to us, and our best efforts shall be made to help bring about the result sought. Advertising is becoming a problem of considerable magnitude for the dealer in horticultural wares. To attempt to do business, under conditions now prevalent, without advertising, is useless. Yet there is a vast amount of advertising done which amounts to nothing. Good advertising is a gilt-edged investment; poor advertising is waste. To accomplish the desired combination of the right man, offering the right goods, at the right price, and through the right medium, requires the exercise of as much sagacity and discretion, — genius, even, — as is required for success in any other department of the horticulturist's profession. The fact that hundreds of readers representing all classes and all departments declare emphatically that HORTICULTURE is already the best paper in its class on this continent has its corollary in our well-filled advertising pages. And our age is just three months.

GREETING FROM AN OLD FRIEND

CHICAGO, Feb. 12, 1905.

Editor HORTICULTURE:

Your No. 11, February 11, to hand, prompt, on time, and I must say a very good number. I can easily understand why many will like the distinctive features in its make-up.

It is a far cry to those of us whose memory goes back to more than the half century's mark in the florists' business in this country to note the wonderful changes that are constantly taking place and will, to a far greater extent, as time goes on. And the literature has much to do with that change. The trade journal is a sign of the times, has a place to fill, and prospers on the trade it helps to make. Other efforts in literature come and go, the florists' stands pat. The man behind the gun has something to do with it, and the Hub has a long life history to fall back on for a share in the sayings and doings of the craft.

EDGAR SANDERS.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Enclosed please find $5. and book me for HORTICULTURE for five years. I like it. — T. M.

We think the paper is a very good one and very nicely advertised, and its make-up is a work of art. — J. L. D.

Dear Sir: — please stop at once sending the HORTICULTURE to me I am well suplite with other Florist Papper. — J. S.

HORTICULTURE is a remarkably bright and readable paper. It seems to me that you have done very well indeed in getting out a paper possessing so many attractive features so early in the game. — A. H. K.

Personal

A. R. Potter, Jr., of Chicago, has taken a position at Vicksburg, Miss.

Roland H. Messenger of Barre, Mass., succeeds Alexander E. Whitely as florist at the Bradley greenhouses, Brattleboro, Vt.,

Robert Paterson, for years superintendent at the late Frank Jones' estate in Portsmouth, N. H., has accepted a fine position as head of a big concern at Morristown, N. J., and he will move there from his farm in Northampton, where he has been since the Jones farm was closed up.

Henry Wild, who for the past seven years has held the position of superintendent of the Blake estate at Brookline, Mass., leaves on March 15th, to assume charge of Mrs. Converse's new place at Greenwich, Conn. This estate comprises no less than six hundred acres, and is to be magnificently embellished with Italian gardens, conservatories, fruit houses, etc.

At a recent meeting of the Board of Trustees of the Iowa State Agricultural College at Ames, Ia., the acting professor, Mr. A. T. Erwin, was made associate professor of horticulture.

Prof. Erwin is one of a long list of horticulturists who in earlier years studied at the St. Louis Botanical Gardens and since continued to progress in the service of one of the states.

Iowa is a foremost apple-growing state, and with Professors S. A. Beach and A. T. Erwin as its official leaders and directors of scientific horticulture we shall expect her to retain that prominence.

An advertisement for a gardener, which appeared in Pittsburg Press last Sunday: —

WANTED. — A good, practical gardener and florist, married and no children; must be a practical man, and know all about flowers, lawns, and shrubs, and understand the work on a gentleman's place; able to look after 2 horses and 1 cow and drive in evenings — will give a 4-room house and $20 per month, and if wife is good laundress, can make sometimes two days a week overtime.

If any reader of HORTICULTURE is desirous of taking a mortgage on his soul, now is his chance, as I think the advertiser would have no hesitancy in taking it up. J.

Imported Dendrobiums at St. Albans, England



Our illustration shows one of the corridors of Sander & Son's orchid houses at St. Albans, Eng. The picture hardly gives a good idea of its length, which is 350 feet. It is devoted to the reception of orchids from the tropics. The illustration shows an importation of Burmese dendrobes just unpacked and men selecting them for orders. The place is an ideal one for the purpose, being airy and free from excessive moisture. The plants in the foreground are Dendrobium Devonianum, and the rest of the consignment consists of 10,000 D. Wardianum, with quantities of D. crassinode, D. Brymerianum, D. Bensoniæ, D. thyrsiflorum, D. densiflorum, D. nobile, D. primulinum, etc.

Obituary

Farquhar Macrae died February 21st at his residence, 1138 Smith St., Providence, R. I. His death was very sudden, he having been ill only a few hours, the cause being peritonitis. Mr. Macrae was born in Rosshire, Scotland, in the year 1844. He served his apprenticeship as gardener at Conon gardens, the estate of Sir Kenneth McKenzie. After working in prominent places in England and Scotland, came to Providence about the year 1869, and entered the employ of Willard Whitcomb as an expert grower of grapes under glass. His product soon became known in the New York market, commanding the highest prices. After several years he moved to the G. W. Chapin place for the purpose of growing flowers commercially, the florist business at that time being in its infancy. He made it a success from the start. Leaving the Chapin place, he located on the outskirts of the city, where he was successful for a number of years as a grower for the wholesale markets of Providence and vicinity. About fifteen years ago he sold the property to his brother, John A. Macrae, and purchasing a tract of land adjacent of about twenty acres, he erected a modern greenhouse plant, where he made a specialty of carnations, roses, chrysanthemums, and violets, the growing of chrysanthemums being a great feature. He took about all the first premiums of the Rhode Island Horticultural Society on chrysanthemums, for many years. He was a man of sterling quality, endearing himself to all with whom he came in contact, and took great interest in things pertaining to horticulture. He was an active worker in the Rhode Island Horticultural Society and the Florists' and Gardeners' Club of Rhode Island, being president of the latter organization when the Society of American Florists held its convention in Providence in 1897, and also served that year as vice-president of the latter society. He was a model husband and father, and beside the host of friends he leaves a wife, three sons, and five daughters, also two brothers and one sister, Mrs. Batchelder, of Beverly, Mass., to mourn his loss. Two of his sons, Alexander and Walter were associated with him in business. His funeral took place Friday, 24th inst., the interment being at Swan Point Cemetery.

NEWS OF THE CLUBS AND SOCIETIES

ST. LOUIS FLORISTS' CLUB

President Juengel in the chair, all the other officers at their respective stations, about seventy members and visitors present, a splendid exhibition of carnations on the tables — this was the enviable showing made at the last meeting of this wide-awake organization. Visitors at the meeting included James Hartshorne and J. D. Thompson of Joliet, Ill., A. Canfield, Springfield, Ill., S. S. Skidelsky, Philadelphia, Pa., George M. Kellogg, Pleasant Hill, Mo.; L. Van der Mey, Lisse, Holland, all of whom addressed the meeting, and the ladies present were Mrs. M. M. Ayers and Mrs. H. G. Berning.

The exhibits and awards were as follows:

Home-grown carnations: 50 white — first, John Steidle with Gov. Wolcott; second, A. Jablonsky with Lady Bountiful; third, J. F. Ammann with White Cloud. 50 pink — John Steidle, Enchantress; J. F. Ammann, ditto; A. Jablonsky, ditto. 50 red — J. Steidle, Adonis; A. Jablonsky, Crane and Flamingo. 50 mixed — J. Steidle, A. Jablonsky, Fred Ammann.

Shown by outside growers: 50 white — Chicago Carnation Co., first and second with Lady Bountiful and White Lawson; E. G. Hill Co., third with Lady Bountiful. 50 pink — Chicago Carnation Co., first and second with Enchantress and Lawson; Salveston & Son, third with Lawson. 50 red — Chicago Carnation Co., Cardinal; J. D. Thompson Carnation Co., Robert Craig; E. G. Hill Co., Cardinal. 50 any other color — Chicago Carnation Co., first and second with Prosperity and Harlowarden; E. G. Hill Co., third with Mrs. Patten. Other exhibits were My Maryland from H. Weber & Son, 88 points and certificate; John E. Haines from John E. Haines and Victory from Guttman & Weber, both too far gone for judging. Red Lawson from W. J. Palmer & Son arrived one day too late. The judges were J. F. Ammann, John Steidle, and A. Jablonsky for outside exhibits and James Hartshorne, J. D. Thompson, and A. C. Canfield for the local entries.

Messrs. Weber, Kuehn and Koenig were appointed a new building committee, and Messrs. Beneke, Windler, and Windt, press committee. Frank Fillmore read an interesting account of of the recent trip to Chicago.

The March meeting will be the annual rose show, in charge of Otto Koenig, F. H. Meinhardt, and J. J. Beneke. A banquet will follow the meeting, at the Missouri Athletic Club and all visitors will be invited.

CINCINNATI FLORISTS' SOCIETY

The special exhibition of carnations will be held at the club rooms in Jabez Elliott Flower Market on March 11. Through the generosity of the club members and their friends the following prizes are offered for competition, and it is expected that the great success met with at the recent rose exhibition will be duplicated at this carnation show. Premiums are as follows:

CARNATIONS.

	1st	2d	3d
50 White,	$5.00	$4.00	$2.00
50 Light pink,	5.00	4.00	2.00
50 Dark "	5.00	4.00	2.00
50 Variegated,	5.00	4.00	2.00
100 mixed, not less than 6 Commercial Varieties,	8.00	6.00	4.00
25 Seedlings,	4.00	3.00	2.00

Best general display, 10.00

Scott to be the dividing color between light and dark pink.

For anything new or meritorious in plants or cut flowers the S. A. F. medals will also be competed for.

These medals, — one silver and one bronze, — are offered by the Society of American Florists and Ornamental Horticulturists to be awarded by the Cincinnati Florists' Society, for a new and meritorious plant or flower of American origin. The medals may be competed for at this and subsequent shows, not less than twelve blooms to be staged of any cut flower in competing for above medals. Medals to be awarded at March exhibition. Rules of Cincinnati Florists' Society will apply to the above.

The February rose show was a pronounced success, both in quality of blooms and quantity of stock shown. J. W. Rodgers, who had charge of the show, reports that the attendance was above the average, notwithstanding the disagreeable weather.

The exhibitors and awards were as follows:

W. K. Partridge received first prize for Liberty, Golden Gate, and Ivory, and second for Bridesmaid and Meteor. Mr. Partridge also took first on general display with one of the most unique and artistically arranged tables that has ever been exhibited at any show. His Golden Gate, Ivory, and Liberty roses were the best exhibition blooms the writer has ever seen.

A. Sunderbruch of Hyde Park, took first with a well-done vase of Bridesmaid and second with Bride. Peter Weiland showed Bridesmaid and Uncle John — all very good stock. He took third with Bride.

George & Allan, who always have the interest of the Society at heart, were present with a fine collection of bulbous stock and American Beauty, Bride and Bridesmaid roses. They took second on Beauty, Perle, and Bride, and first for Meteor. Their general display was also very creditable. J. A. Peterson was present with some well-grown plants of his new begonia.

J. W. Rodgers exhibited a fine lot of Princess of Wales and California violets, winning first on general display of violets. Theodore Bock made a very efficient and acceptable judge.

The stand-holders in the market re-



VASE OF 100 CARNATIONS WINNING HORTICULTURE PRIZE AT BOSTON EXHIBITION

ported sales much better than usual. This is due to the fact that the public must pass through the market to reach the club room and would indicate that a cooperation in the monthly exhibitions would be beneficial to all interested in the culture of flowers.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

Another in the series of excellent meetings being held this season by this organization, took place on Tuesday evening, February 21. The address was by W. W. Rawson on the subject of vegetable growing under glass, and it was listened to with close attention by an audience of about seventy-five members. The lecturer talked interestingly on the increasing need for growing more and larger crops on smaller areas, the many obstructions that must be overcome by the market-gardener under glass, the methods of cultivation, marketing, etc., and especially on the construction and heating of greenhouses for this purpose. The increase in greenhouse area devoted to the forcing of vegetables during the winter season was characterized as remarkable during recent years, and the knowledge of their management had become more universal. Mr. Rawson said that he had no use for hot-water heating except in very small establishments, and the latter he would not advise at all, as, if one cannot go in large enough to make of it a business worth something, he would be wise to stay out. If hot water must be had, he would use only tubular boilers, and soft coal in any event. He said that nothing he has ever undertaken has given him the satisfaction that has been gained from sterilization of the soil. For a house of half an acre area, the cost is about $150. It takes six men three days and requires the use of about five tons of coal.

On the exhibition table were vases of carnation Cardinal and rose Rosalind Orr English from E. G. Hill Co., carnation Chester Roper from A. Roper; Flamingo from Stevens & Co., and canna Admiral Dewey from Mr. Westwood. The next field-day of the club will be March 11, when a visit will be made to the forcing houses of W. W. Rawson at Arlington.

LENOX HORTICULTURAL SOCIETY

Probably the most successful ball of the long series held annually under the auspices of the Lenox Horticultural Society was that of Valentine's evening in Sedgwick hall. Despite the cold night, there was a very large company, many from Pittsfield, Lee, Stockbridge, and other surrounding towns attending. The hall was beautifully decorated, evergreen boughs, palms, and flowering plants being used about the stage. Gartland's orchestra of Albany, directed by John L. Gartland, gave an interesting concert, beginning about 8.30, and an hour later the grand march was formed. Throughout the evening caterer Peters served a supper in one of the anterooms and on the stage. The committee of arrangements was Fred Heremans, S. Carlquist, A. J. Loveless, Frank Butler, and William Woods; reception, R. A. Schmidt, Edwards Jenkins, A. J. Loveless, E. J. Norman, A. McConnachie, George H. Thompson; floor directors, Ralph Gorham, Charles R. Russell, J. Bosworth, William G. Clifford, George Ferguson, Frank Howard.

The regular meeting of the Lenox Horticultural Society was held February 18th, President E. Jenkins in the chair. The Housatonic Agricultural Society held an institute with the Lenox Horticultural Society, and introduced Prof. George E. Stone, who gave a public lecture on "The Relation of Science to Agriculture." Prof. Stone dealt chiefly on the experiments they are making at Amherst, and was very interesting. — G. F.

A NEW SOCIETY

The Federation of Agricultural Organizations of New Jersey is the high-sounding title of a new society formed at Trenton. It is practically a union of the State Board of Agriculture, the State Horticultural Society, the State Grange, the Cranberry Growers' Association, and the Board of Managers of the State experiment station, for purposes offensive and defensive. It is not so much a combination of the agricultural interests of the state, for the development of the constituent organizations, as it is a kind of advisory board for the whole, each society being entitled to two delegates to the annual meeting, held in January of each year. The avowed purpose is to work for legislation that will benefit the agriculturists of the state, and to prevent the enactment of laws inimical to their interests. Just what this may mean in the concrete will doubtless be made known in the future, but it is not likely that bills for the slaughter of birds of any kind will be advocated by the new organization. Some horticulturists may want such bills, but the agriculturists do not. Anti-automobile bills, anti-high-speed bills, good roads bills and the like may be strongly advocated; so also many bills against allowing noxious weeds to grow and ripen. Whatever bills the agriculturists really need they should have, for no class of people is more deserving or more essential to the state's welfare.

FLORISTS' CLUB OF PHILADELPHIA

It has been decided by the committee having the matter in charge that the next meeting of the Florists' Club of Philadelphia, to be held Tuesday, March 7, will be Rose Night. The members of the Florists' Club are anxious to see all the novelties among roses that are likely to become popular. All those having such are invited to bring them to this meeting, or if it will be impossible to do so, kindly forward same by express prepaid in care of David Rust, Horticultural Hall, Broad Street, Philadelphia, Pa.

EDWIN LONSDALE, *Secretary*,

HARTFORD FLORISTS' CLUB

J. K. M. L. Farquhar, of Boston, delivered a lecture before this club, in the board of trade room, on February 17th, his subject being "Horticulture and Gardening in Japan." Many stereopticon views were shown in illustration of the lecture.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Introducers of new varieties of plants, home raised or imported, whether members of the Society or not, are earnestly requested to send to the Secretary a list giving name, origin, and description of such new plants, to be disseminated during 1905, for the purpose of record in the annual report of the Society.

WM. J. STEWART, *Secretary*.
11 *Hamilton Place, Boston, Mass.*

Department of Plant Registration

A. E. Mauff, Denver, Colo., submits for registration Nephrolepis Bostoniensis Mauffii. A sport from Nephrolepis



CARNATIONS AT MARKET EXHIBITION, HORTICULTURE HALL, BOSTON

Bostoniensis. Described as a strong grower, the fronds arching and forming a double curve; pinnæ strikingly undulating.

William J. Stewart, *Secretary.*

AMERICAN CARNATION SOCIETY

Carnation Registered by F. H. Kramer, Washington, D.C.

"F. H. Kramer." A cross between Lawson and Marquis, color a shade brighter than Lawson, flower a trifle larger, with no short stems in the fall, and does not burst. In growth it is stronger than any carnation we have grown and is entirely free from disease, a continuous bloomer and stems stand without support.

Albert M. Herr, *Lancaster, Pa.*

NOTES

The annual reunion of the Worcester County (Mass.) Horticultural Society will take place on Wednesday, March 8. The convention of the Massachusetts Fruit Growers will take place on that date and the day following.

On Saturday, February 25th, at Horticultural Hall, Boston, there will be a general discussion on flowers, to be opened by J. Woodward Manning. Meeting opens at 11 A.M. On Saturday, March 4th, A. Herrington will read a paper on "Some Aspects of Hardy Flower Culture."

Referring to the Plant and Cut-Flower Growers' Association, which was organized at St. Louis on February 9th, A. S. Halstead, president of the Association, says in a circular just issued that it should be definitely understood that the object of the association is not in conflict with the St. Louis Florists' Club, and that there is no intention to supplant that organization, the objects of the new body being to benefit in every way possible the growers of plants and cut flowers.

A NEW ASTER

We have received a photograph, showing a vase of blooms of the new aster, Miss Kate Lock, originated by John H. Lock, Toronto, Ont. This aster originated from the Washington and American Branching asters. It grows from 38 to 48 inches high. Mr. Lock informs us that each plant produces about fifteen large full-centered flowers on stiff stems. The plants are very robust. Judging from the flowers shown in the photograph, this aster should take a first place in market. It is certainly very handsome.

CHICAGO NEWS

Friedman's 35th Street store was a victim of our recent cold spell. The heating system of the building gave out Wednesday night, February 15. The break was occasioned by a water pipe bursting in basement, flooding same, which put out the boiler fires. Many choice plants in the store were frozen and everything in the conservatory which is attached to their store was a complete loss. Friedman is one of the few florists who carried such a large stock of fine and valuable decorative plants.



Primula Obconica at Boston Exhibition

FLORIDA'S OPPORTUNITY

The floating gardens of Mexico, so-called, are in many respects similar to the everglades. They are reclaimed from a great swamp or lake adjoining the City of Mexico, by a system of drainage canals, the Viga canal being the principal outlet into which numerous small ditches let the water, leaving the black muck soil dry for tillage.

There is no reason why the people of Florida should not accomplish greater results with a far less expenditure of money.

If the United States can apply millions of dollars in river and harbor improvements, it can, with equal propriety, expend a moderate sum in draining the everglades, for this is of equal importance as a public improvement.

While the City of Mexico is eight thousand feet higher than sea level, there are in the vicinity several lakes and marshy tracts which require extensive drainage operations. The Viga canal is one of these great drainage systems, and upon it are numerous barges, which transport farm and garden produce from the market gardens to the city. Flat-bottomed boats, propelled by a pole, convey passengers to the floating gardens.

The gardens are located on marsh land quite similar to the tule lands of California. The soil is composed of decayed reed and grass roots, being entirely of vegetable mould and quite fertile. Ditches at frequent intervals drain the gardens and furnish means of communication by canoes and small boats to the larger canal, and thus to the city. Here are the great market gardens, where vegetables are grown for Mexico's consumption. Here, too, are grown the magnificent flowers which form one of the principal attractions of Mexico City, the flower market being a wonder in the quantity and exquisite beauty both of the individual tropic flowers and the magnificent floral forms, which are made with great taste and skill.

Street cars also connect the city with the villages upon the Viga canal, and they are well patronized. — *Arboriculture.*

CANADIAN CUSTOMS REGULATIONS

(From United Sates Consul Gunsaulus, Toronto, Canada)

The new customs regulations affecting invoices of goods coming into Canada, which recently went into effect, are as follows:

The customs authorities now require duplicate invoices, and on each invoice must be a column in which is to be entered the fair selling price in the country from which the articles are imported. This is part of the "anti-dumping" regulations. On each invoice there must be printed or written a certificate of the value of the goods contained in the consignment. The new form of certificate must be signed by the exporter or by a responsible agent, and must be to the effect that the invoice is correct as to the price of goods; that the value placed on them is the fair market value if they were sold in like quantity or condition for home consumption; that no different invoice will be furnished to anyone, and that there is no arrangement allowing the purchaser any discount or rebate or any compensation whatsoever. On all invoices of goods not entered under the British preferential tariff a special certificate has to be sworn to, stating that none of the articles is the product or manufacture of Germany. A certificate is required on invoices of goods of British manufacture, giving details as to the countries from which the materials included in the consignment come; and in the invoice of goods sold by an exporter prior to their shipment to Canada, not only must the market value of the goods for home consumption be given, but also the selling price to the purchaser in Canada.

Outdoor Art and Craft

The Board of Estimate of the city of New York has appropriated $1,000,000 for new play-grounds and $3,000,000 for small parks. This was done after the Board had decided to limit the expenditure for parks and playgrounds to $4,000,000.

The largest appropriation for a park was for Chelsea Park, Manhattan, which is to cost $1,250,000. The Board authorized the purchase of land between Ninth and Tenth avenues, Twenty-sixth and Twenty-seventh streets, for this park. The other appropriations included $750,000 for the Highland Park extension in Brooklyn, $25,000 for Fort Joseph Rodman Drake Park in the Bronx; $400,000 for a park at Barclay, Hoyt, and Ditmars avenues in Queens, and $100,000 for the acquirement of title to property at Crotona avenue and Southern boulevard in the Bronx for park purposes. The Board also passed appropriations aggregating $925,000 for property in Bay Ridge, Brooklyn, known as Owl's Head. Of the money, $625,000 is for land above water and $300,000 for land under water.

The city government of Holyoke, Mass., has appropriated the sum of $20,000 for park purposes, the money to be raised by taxation.

NEW HARDY HERBACEOUS PLANTS

One of the finest of the more recent introductions among herbaceous plants is Incarvillea Delavayi, a very distinct and beautiful plant introduced from China. It grows to a height of between eighteen inches and two and a half feet, according to the position, the richness of the soil, etc., and an additional advantage is that its cultivation is exceedingly simple — the same, in fact, as that of any ordinary hardy perennial. The large blossoms are long, or tube-shaped, resembling those of a gloxinia, and vary in color from a deep rose-color to rich carmine. The foliage is nicely laciniated, and altogether this is one of the very finest of plants for the herbaceous border. It should be planted in deep, rich, sandy loam, and in an open and sunny position.

Conandron ramondioides is a charming little "Alpine" (or rock plant) from Japan. It bears a considerable resemblance to the now well-known Ramondia, growing only about six inches in height, and bearing pretty sprays of white blossoms with purple centers. It succeeds best in the shady and moister positions of the rock garden.

Meconopsis cambrica is a double flowered form of the "Welsh Poppy," a very handsome plant with very double flowers of a rich orange-yellow color. It succeeds best in a fairly light soil, and a cool shady position. Meconopsis Wallichi, the blue Himalayan Poppy, has large saucer-shaped flowers, of a soft pale blue, with a central mass of golden stamens. Like the last, this delights in a cool and moist position; both are true perennials and quite hardy.

In Patrinia villosa we have another fine new hardy perennial, bearing large heads of rosy-lilac blossoms in the autumn, on plants some five feet high. This is a grand thing for planting towards the back of a wide herbaceous border, and in color it contrasts admirably with the asters, tritomas, Pyrethrum uliginosum, etc.

Haberlea rhodonopsis bears some resemblance to the Ramondia and Conandron, and is a pretty dwarf plant, only about six inches high, from the Balkan mountains, succeeding best on the more shady parts of rockwork, or on a cool north border. The flowers are tubular in form, and of a charming bluish lilac shade. — *Garden Life, London.*

House of Lettuce



Here we have a new house and an instructive object lesson in management, as followed by a grower who has been uniformly successful in all his undertakings because of wise foresight and good judgment. The house illustrated is the first of a contemplated range to be erected by W. W. Edgar of Waverly, Mass. It is, of course, intended for floricultural purposes but for various good reasons, Mr. Edgar saw better prospective results from a first crop of lettuce, as seen in the picture, to be followed by a crop of tomatoes, for which the young plants are already grown, and later in the season probably a crop of chrysanthemums. The element of "luck," as some call it, which is, rather, a result of good business management, has followed Mr. Edgar's venture, for lettuce is now worth $2 a box in the market, a dozen bringing as much money as a box did not long since.

The house is 40×200, of steel construction, and was built and heated by Lord & Burnham Company.

Catalogues Received

John D. Imlay, Zanesville, O. A Few Choice Seeds and Plants.

Henry A. Dreer, Philadelphia, Pa. Hints and Suggestions for the Garden. A 4-page illustrated sheet, just what its name indicates.

Thomas J. Grey & Co., 32 and 33 South Market St., Boston. Seed and Implement Catalogue for 1905. Grows bigger and better every year.

Andorra Nurseries, Chestnut Hill, Philadelphia, Pa. Price-list of specimen Trees, Shrubs, Roses, and Fruit. 1905. A big list in small compass.

Wood, Stubbs, & Co., Louisville, Ky. Success with Lawns. Illustrated with views of velvety lawns and contains valuable instructions in the care of such.

V. Lemoine et Fils, Rue du Montet, 134a, Nancy, France. Selections from regular catalogue; illustrations of Begonia Triomphe de l'Est, Deutzia Vilmorinæ, and D. myriantha.

R. & J. Farquhar & Co., Boston. A handsome embossed cover shows a cluster of four varieties of asters and three garden roses in colors. Profusely illustrated throughout its 160 pages and full of good things in annuals and hardy perennials and shrubs.

Joseph Breck & Sons Corporation, Boston. 82d Annual Catalogue of High Grade Seeds. This spring visitor from the oldest seed house in New England is welcome as ever, and if there is anything in seeds, implements, and agricultural goods that it does not list, they can easily be dispensed with.

Arthur T. Boddington, 342 West 14th Street, New York. Wholesale Catalogue of Seeds, Bulbs, and Plants of Quality. An illustration of a houseful of Boddington's double white ten-weeks' stock in bloom, on the title-page, commands attention. General spring catalogue of the same establishment is comprehensive, freely illustrated, and a model in press-work.

Planters' Seed Co., Springfield, Mo., "The Planters' Guide" for 1905. This is the first catalogue of this new concern. It is devoted mainly to vegetable and field seeds and supplies. The secretary of the company is F. W. Maas, for a number of years connected with W. Atlee Burpee & Co., Philadelphia, whose ability and experience will count for much in the future career of the new concern.

W. FROMOW & SONS, Bagshot, England

Extensive Growers of Hardy and Decorative Nursery Stocks, in extra selected grade. Our GOLDEN PRIVETS and RETINOSPORA, in sorts, are extra fine at reasonable cost. Address for trade list, our American agents:

AUGUST RÖLKER & SONS, *31 Barclay St., New York P. O. Box 752*

"The Cardinal"

The Best Scarlet Carnation

Again defeats all comers at St. Louis Carnation Show.
Scores 97 points at Toronto, last week—higher than all others.
The Cardinal is a profitable carnation to grow; produces more blooms to the square foot than any other.
If you get a good stock of this Grand Scarlet you will have done investing in new scarlets for years to come. *Do it now.*
ROOTED CUTTINGS, $12.00 per 100; $100.00 per 1000. 250 at 1000 rates. Special prices on larger quantities.

Introducers { Chicago Carnation Co., Joliet, Ill.
E. G. Hill Co., Richmond, Ind.
S. S. Skidelsky, 324 N. 24th St., Philadelphia, Pa.

WE CAN SHIP

White Lawson

AT ONCE

We sent this variety out last season; it has given general satisfaction. Our stock is pure white. ROOTED CUTTINGS, $7.00 per 100. $60.00 per 1000. Special prices on larger quantities. Send for our catalogue.

Chicago Carnation Co.

James Hartshorne, Mgr., Joliet, Ill.

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds.

Below we list some of the more important items:

BOILER TUBES. Two carloads of 3½ and 4 inch good Boiler Tubes that have been used We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value The ends have been cut square, they have been rattled and they are free from scales and imperfections They are in long lengths They are just what you require for extending your Heating System

We furnish with these tubes at small cost wrought iron sleeve couplings thread'd one size larger than the boiler tubes themselves For large quantity orders we will make special low prices At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES We offer for sale the three complete Greenhouses used on the Exposition Grounds Each Building, 22 - 300 ft., with all latest improvements double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings Sketch and full information on application We will sell these Greenhouses singly

HOT BED SASH - 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. 20,000 Paper Flower Pots that have never been used Low prices for quick delivery

25,000 PLANTS. All the Plants now stored in the Hot House are in first class condition They are being properly taken care of and consist of the following: - 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternantheras, 2,000 Echeverias, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others

LUMBER. - 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery We are making extremely low prices in carload lots. If you are interested send us your carpenter's bill for our estimate

PIPE. 10,000,000 feet of Standard Black Wrought Iron Pipe It has been in service only during the Exposition Sizes range from ¼ up to 42 inch We can furnish you pipe of any kind Write for complete list

GREENHOUSE FITTINGS. Anything needed in the line as our stock is complete. Write us your requirements We can furnish you valves, fittings, etc.

Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

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35th AND IRON STS., CHICAGO World's Fair Grounds, St. Louis, Mo.

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Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE

GREENHOUSE ESTABLISHMENT, — 38,000 feet, fully stocked with Carnations, Roses and Palms, within three miles of a New England metropolis. Good established trade. Wholesale and Retail.

$4.000
A BIG BARGAIN

Address A.N., care HORTICULTURE, 11 Hamilton Pl., Boston

FOR RENT

$50.00 per month; five greenhouses, 9000 square feet of glass, 9½ acres of good ground, house and barn, long lease. $1000 cash for stock, etc. Near Chicago.
Address B., Care HORTICULTURE,
11 Hamilton Place Boston.

FOR SALE — 7-room house, 16,000 ft. of land and greenhouse near center of city of 30,000 inhabitants. Grand chance for gardener. Grow ferns, palms and bedding stuff for retail trade. Plenty of jobbing. Or could increase glass for wholesale growing. Fifteen minutes to Boston. Nine-cent fare. Five hundred dollars down; balance, easy payments, will make easier terms if right parties.
Inquire H. H., Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — Head Gardener well up in all branches, A. I. Orchid Grower, married, no family. Age 32. Nat. English. Apply stating particulars to S. H Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED — As Gardener to have charge of estate. Long experience in all departments, in fruit and plant growing all kinds; care of lawns, trees, shrubs etc. — for reference apply to Mr. W. J, Stewart, editor of this paper.
W. S., Care HORTICULTURE,
11 Hamilton Pl., Boston.

SITUATION WANTED — As foreman on good-sized place where rose growing for cut flowers is made a specialty. Refer to Alex Montgomery, Waban Conservatories, Natick, Mass. Address GROWER, care of HORTICULTURE, 11 Hamilton Place, Boston.

ELECTROS

For Sale — Electros of half-tone illustrations used in this and previous numbers of HORTICULTURE.

For prices, etc., address
HORTICULTURE
11 Hamilton Place, Boston

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

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PITTSBURG MARKET REPORT

Pittsburg florists have suffered during the past week, through cold weather, more than any previous week this winter. Our local growers report nearly everything, excepting bulbous stock, at a standstill. Shipments of cut flowers were considerably delayed, and Beauties very scarce, also good Brides and Bridesmaids. A vast quantity of violets was disposed of this week, one firm handling several thousand. Lilies are more plentiful, but still of rather a poor grade. Carnations were about the same as last week, with the excpetion of more and better grade of Enchantress, and some fine Fred Burki (white) are coming in now. More of this good white should be grown. Scarlets are very scarce and rather small and weak in stems. The Phipps Conservatory in Allegheny had to use wood and coal during the zero weather this week, and several private conservatories that use gas experienced a considerable drop in temperature. Luckily no one has reported a freeze-out. The outlook for the Easter display at the Schenley Park Conservatories is very promising, and the bulbs are being brought in and are in good shape at present. There are rumors of another wholesale store and two retail stores to be opened here in the near future, but at present writing the writer cannot claim it authentic. Visitors this week: E. Perry, Greensburg and Thomas Perkins, Cleveland, O.

CINCINNATI MARKET REPORT

Dark days have caused the business to be sick, the florists to look sick, and when their coal bills come in they will look sicker. There is very little to be said about the conditions of trade. The demand for stock for funeral work has been very good, but owing to the conditions of the weather, hardly any white flowers were to be had. It would be a very hard matter to fix any certain price on cut flowers, as the quantity and quality of stock varies so much.

A well-known grower in this vicinity was fortunate enough a year ago to raise quite a number of American Beauty seedlings, each and every one being different in appearance of growth. The result remains to be seen. The same grower two years ago raised a white Bouvardia of extraordinary growth. The stock increased from one plant to thirty-two and then to several thousands of plants. This promises to be one of the most profitable of winter plants in existence, as some of the stems measured 36 inches in length, with very large trusses of blooms, and it is also noted for its free-blooming qualities. Several white Bouvardias have been raised, but there has been none which can compete with this.

BUFFALO MARKET REPORT

The conditions of the market in general are not any too bright, but we believe that as soon as the cold weather is over business will pick up. It has been very cold here for the past few weeks and consequently business was somewhat at a stand-still.

Trains have been late bringing stuff into the market, consequently prices were not as high as they should have been for this time of the year. Bulbous stock is plentiful. Of violets there are more than are needed. Carnations are in ample supply for the demand.

Roses are selling best of anything, because there are not too many of them.

BALTIMORE MARKET REPORT

The demand has been very good for the past week. Some very fine roses coming in, but not enough to supply the demand. All stock has moved pretty well, except occasionally single violets hung a little heavy.

PREMATURE CUTTING OF LILY OF THE VALLEY

It is not always the fault of the pips that lily of the valley does not give first-class, salable sprays. An examination of grades one, two, three, and four, in a prominent commission house recently gave evidence that a large per cent. of the difference was on account of injudicious cutting. The best had from eight to eleven bells well developed; the lowest grade five to six; but the balance were there in embryo — undeveloped. Cut too soon. If care had been exercised, grade four would have become one, in a matter of two or three days. The foliage of the lower grade was pale, and a few days longer would have made a big difference in depth and salableness. Now this may seem to some an academical question, and not a matter of dollars and cents. Is it? Ask any lily of the valley grower who is running his place to pay, and he will promptly tell you that if he can turn grade four into grade one by merely waiting a few days, it will mean a difference of possibly two dollars per hundred in returns; and differences like that are vital on a crop of any magnitude.

BERKSHIRE

New Double Pink

PETUNIA

Strong grower, very free bloomer and a beautiful shade of pink color of Bridesmaid rose I guarantee this Petunia to be as represented. Orders filled in rotation at the following prices: Rooted cuttings, prepaid, 25 for $1.00; 50 for $1.75; 100 for $3.00; 2½ in. pot plants, $5.00 per 100, express.

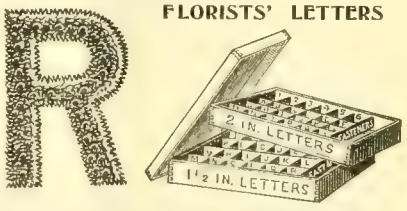
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Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, 4. Fastener with each letter or word.

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Telephone, Main 3978-1 J. B. Olden, Mgr.

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Do not be put off with cheap substitutes.

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WHITE VIOLETS

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THE WHOLESALE FLORIST OF PHILA.

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$1.50 per 1000

Green and Bronze Galax, $1 per 1000

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8 & 11 PROVINCE ST.

Boston, Mass.

Emperor Daffodils

Extra Quality

Fancy Freesias

WILLIAM J. BAKER

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Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Feb. 21	ST. LOUIS Feb. 20	PHILA. Feb. 15	BOSTON Feb. 23
ROSES				
Am. Beauty, Fan. & Sp.	40 00 to 50 00	33 00 to 40.00	50.00 to 60.00	50.00 to 60.00
" Extra	32 00 to 36.00	20.00 to 25.00	40.00 to 50.00	25.00 to 35.00
" No. 1	15 00 to 25 00	12.50 to 17.00	20.00 to 25 00	12.00 to 20.00
" Lower grades	5 00 to 12 00	4.00 to 8.00	6.00 to 12.50	6.00 to 8 00
Bride & Maid — Fan. & Sp.	12 00 to 15.00	..... to 10.00	15.00 to 17.00	12 00 to 16.00
" " Extra	10 00 to 12 00	..... to 8.00	12 00 to 15 00	8.00 to 12 00
" " No. 1	8 00 to 10.00	..... to 6.00	10.00 to 12.00	6.00 to 84.00
" " Lower gr.	2 00 to 6 00	4 00 to 5 00	2.00 to 8.00	2.00 to .....
Liberty, Fancy & Special	10 00 to 12 00	..... to 10.00	30.00 to 35.00	..... to 12.00
" extra	8 00 to 10.00	..... to 8 00	20.00 to 25.00	8.00 to 8.00
" No. 1	6 00 to 8 00	..... to 6.00	12.00 to 15.00	..... to 4.90
" Lower grades	2 00 to 4 00	4.00 to 5 00	3.00 to 10 00	8.00 to 12.00
Golden Gate, Ivory, Chatenay — Best	10 00 to 12 00	..... to 10.00	15 00 to	6 00 to 8.00
Golden Gate, Ivory, Chatenay — Medium	8.00 to 10 00	..... to 8.00	10 00 to 12.00	3 00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	2.00 to 3.00	5.00 to 6 00	4.00 to 8.00	3.20 to 4.00
CARNATIONS				
Fancy Class	3 00 to 5.00	4.00 to 5.00	4.00 to 6.00	3.00 to 4.00
General Class	2 00 to 3 00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Lower Grades	.75 to 1.50	..... to 1.50	1.00 to 2.00	1.00 to 2.00
VIOLETS				
Special	..... 75 to 1.00	..... to .60	.75 to	.50 to .75
General	.....50 to .75	..... to .50	.50 to	.30 to .50
Single	.....50 to .60	..... to .40	.50 to .60	.25 to .50.
ORCHIDS				
Cattleyas	50 00 to 60 00	..... to	50.00 to 60.00	..... to .....
Cypripediums	12.50 to 18 00	..... to	15.00 to	..... to .....
BULBOUS				
Lilies	15.50 to 16.00	..... to	12.00 to 15 00	8.00 to 12.00
Lily of the Valley	2 00 to 4.00	3.00 to 4.00	2 00 to 4.00	2.00 to 3.00
Roman Hyacinths	2 00 to 3.00	..... to 3.00	2.00 to 3.00	1.00 to 2.00
Paper White Narcissus	2 00 to 3.00	..... to 3 00	2 00 to 3.00	1.00 to 2.00
Trumpet Narcissus	2 00 to 4 00	2.00 to 4.00	3 00 to 4.00	2.00 to 4.00
Tulips	1 50 to 5 00	3.00 to 4 00	3.00 to 4.00	2.00 to 4.00
Callas	10 00 to 16 00	..... to 15.00	10.00 to 12.00	8.00 to 12.00
MISCELLANEOUS				
Mignonette	3 00 to 10 00	3.00 to 5 00	2.00 to 5.00	2.00 to 3.00
Sweet Peas	.75 to 1.50	..... to .75	.50 to 1.00	1 00 to 1.50
Adiantum Cuneatum	.75 to 1.25	..... to	1.00 to	.75 to 1.00
" Crowe.anum	..... to	..... to	1 50 to	..... to .....
" Farleyense	..... to	..... to	10 00 to	..... to .....
Smilax	10 00 to 15 00	..... to 15.00	10.00 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50 00	..... to	50.00 to	..... to 50.00
" " bunches	25 00 to 35 00	..... to	50.00 to 75.00	..... to .....
" Sprengeri "	25.00 to 35.00	..... to	50.00 to 75.00	..... to .....
Stevia	.. .. to	..... to	..... to	..... to .....
Freesia	..... to	..... to	..... to	..... to .....

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1220 Filbert Street BELL and KEYSTONE TELEPHONES PHILADELPHIA

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51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

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Florists' Supplies and Letters

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HIGH GRADE
Southern Wild Smilax
(From a case to a carload)
At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

CHICAGO MARKET REPORT

Receipts of the week were about equal to that of the previous week. There has been no material change in prices. The extreme cold spell was the cause for much anxiety as to safe arrival of shipments. Incoming consignments arriving frozen were numerous. Several commission men report instances where their out-of-town orders arrived frozen. This will be a total loss to the shippers, as no redress can be obtained. Express companies would not accept unless at "Your own risk." American Beauties have been far below the demand. The reports from growers indicate a shorter supply with some improvement in quality. The demand for Brides and Bridesmaids continues ahead of the new crop cut. There are many sales reported above quoted prices. J. A. Budlong is cutting a grade of teas which equals the exhibition select strain. Their Brides are wonders, stems 30 inches carrying solid buds as large as teacups, and their finish on Bridesmaids is the feature of the rose market. Carnations are not under any heavy pressure of orders. Colored stock moves slowly. There has been a strong demand for white for the past two weeks. This demand seems incapable of being filled. Quality is of high order. Enchantress, Morning Glory in light pink, Gov. Wolcott, The Belle, White Lawson, and Lady Bountiful in white, Mrs. Thomas Lawson, Nelson Fisher in dark pink, and Estelle, Crusader, Chicago are standard sorts. Some fine Robert Craig and Cardinal are sometimes to be had. In variegated, Mrs. M. A. Patten leads, and Harlowarden is depended on for best crimson. Some fine mixed bunches of seedling novelties are also offered Violets continue with a weak call. Tulips are somewhat easier, and only the better grades move quickly. In orchids the supply has somewhat decreased. Cattleyas especially scarce.

Chicago retailers were fairly pleased with sales on St. Valentine's Day. Considerable transfer business is reported, and HORTICULTURE's advertisers shared the benefit. Violets of course were first choice with red roses or carnations also in good demand. Lily of the valley and myosotis were also popular. Plants seem to get the preference as tokens for "Cupid's Day," and many special arrangements were ordered.

Proserpine tulips in heart-shaped pans were very popular, also azalea Apollo, lilac Marie Legraye, and azalea Mollis Proscitete trimmed in accord for the season. This latter variety is a beautiful shade of yellow, blooms very profusely and is of rich perfume. Wienhoeber is cutting high-colored pink tulip Salvator Rose, a variety far ahead of Murillo, which, when stock is larger, will surely take the place of the old standard variety Murillo.

PHILADELPHIA MARKET REPORT

Market last week was in good condition. Roses were scarce and carnations not nearly as abundant as the week before. Tulips and daffodils were too plentiful and many late arriving lots had to be sacrificed. Von Zions, good stuff, brought in some instances as low as $15 per thousand, although the ruling price asked was $3 to $4. Violet market took a little spurt St. Valentine's Day, but it is again in the dumps. Lowest prices on record. The hard, dull, bitter winter has kept the ladies indoors, and violets have not been worn as much as usual. This may seem a small reason, but we believe it is the main one. Enormous quantities are used in this way, in ordinary seasons. Gardenias have been going fairly well, but too many have been coming in for present demand and prices have dropped considerable. Lily of the valley and Roman hyacinths about normal. There are very few paper white narcissi around now. White lilac, where of good quality, has sold nicely.

Pussy willows are around and are in some demand as a novetly. There's not much to them. People fondly imagine they are a sign of spring, and like to see them about the house as an emblem of hope. They fondly delude themselves that spring is near, forgetting the Ground Hog and the Goose Bone Man. Wouldn't it have been fine if we could have caught and cooked the Ground Hog and sent the Goose Bone Man to the insane asylum? Easter lilies are in fair demand and plentiful at S. S. Pennock's, the only place in town that has these in quantity at present. Myosotis, sweet peas candy tuft, and mignonette are around, and fill their allotted part in the market, at fairly remunerative prices. Acacia sprays are an exclusive item with the Leo Niessen Co. at present. The best Emperor daffodils we have seen this week are being handled by W. J. Baker.

LOUISVILLE MARKET REPORT

Business conditions the previous week were very much up to expectations, especially so at St. Valentine's. Besides roses and carnations, bulbous stock sold very well, especially so, considering the cold weather we have been having. Carnations are of very satisfactory quality. The demand for roses has been very good, and has tested the supply to the utmost extent. Roses of medium grade are available in adequate quantities, except that Beauties are out of question, there being only a few to be seen. Tulips, hyacinths, jonquils, etc., are of very good quality and sell satisfactorily. The sale and quality of violets has been very satisfactory, with the supply light. Lilies of the valley find only fair demand. Freesias and mignonette haven't been very good in quality or sale. Green are very scarce.

Mr. S. S. Skidelsky, of Philadelphia, Pa., was a recent visitor, doing good business.

BOSTON MARKET REPORT

Business has been excellent with the florists of the Hub, — growers, wholesalers, and retailers, — for the past ten days. Everything of acceptable quality is going freely and at fair rates. Balmy conditions are in the air and increasing production is now well due. The heavy receipts always to be expected in early March are sure to have their effect on market values, and it is doubtful if the maximum prices now quoted can be long maintained, but at present there is no trouble to realize in full on roses, and a clean sale is also assured on carnations of good grade. Violets already show a slight improvement over the past few weeks, which is likely to be sustained if the weather should continue spring-like. All bulbous material shares to greater or less extent in the general revival.

NEW YORK MARKET REPORT

The rose supply shows some increase, and with a little milder weather a somewhat larger supply may be expected. Carnations are abundant. Prosperity and Enchantress are blooming more freely. Up to a few weeks ago, Enchantress of prime quality was one of the best sellers, but of late it is a laggard. Good Lawsons are now the favorites. Lilies are moving slowly, with supply increasing. Violets hold their own for this time of the year. A day or two of unfavorable weather, however, and they accumulate rapidly, and then the street people dictate prices for surplus stock. Sweet peas are showing in larger quantities and the best are disposed of at fairly good prices.

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

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CHICAGO'S RELIABLE
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Always Reliable for Flowers Consigned or ORDERS Given
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Write for Market Prices on Flowers
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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
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In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES Per 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 18, 1905.	First Half of Week ending Feb. 25, 1905.
ROSES		
Am. Beauty, fan. and sp	40.00 to 60 00	40 00 to 60 00
" extra	25.00 to 40.00	20 00 to 40 00
" No. 1	8.00 to 25.00	6.00 to 25.00
" Lower grades	1.00 to 10.00	1.00 to 10 00
Bride and Maid, fan. and sp	10 00 to 15.00	10 00 to 15 00
" " extra	8.00 to 10 00	6.00 to 10.00
" " No. 1	4.00 to 6 00	4.00 to 6 00
" " Lower gr	2.00 to 4.00	3 00 to 4.00
Liberty, fan. and sp.	25.00 to 50 00	25.00 to 50.00
" extra	10.00 to 20 00	10.00 to 20 00
" No. 1	5.00 to 8 00	6 00 to 8 00
" Lower gr	2 00 to 4.00	1 50 to 4 00
Golden Gate Best	10.00 to 15.00	10.00 to 15 00
Ivory Medium	4.00 to 8.00	4.00 to 8.00
Chatenay Culls	..... to 3.00	2.00 to 3.00
CARNATIONS		
Fancy Class	3.00 to 6.00	3.00 to 6.00
General Class	1.50 to 2.00	1.50 to 2.00
Lower Grades	.75 to 1.00	.75 to 1.25
VIOLETS		
Special	.50 to .75	.50 to .75
General	.30 to 50	.30 to .50
Single	.35 to .50	.35 to .50
ORCHIDS		
Cattleyas	.... to 50 00	25 00 to 50 00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	5.00 to 10.00	5 00 to 10 00
Lily of the Valley	.50 to 4.00	1 00 to 4 00
Roman Hyacinths	1.00 to 2.00	1 00 to 2 00
Paper White Narcissus	1 50 to 2 00	1 00 to 2 00
Trumpet Narcissus	1.50 to 4.00	1 00 to 4 00
Tulips	1.00 to 5.00	1 00 to 5 00
Callas	6.00 to 8 00	6.00 to 8.00
MISCELLANEOUS		
Mignonette	2.00 to 8.00	2.00 to 8 00
Sweet Peas	1 00 to 1.50	1.00 to 1 50
Adiantum Cuneatum	1 00 to 1.25	1 00 to 1.25
" Croweanum	1.25 to 1.50	1 25 to 1 50
" Farleyense	..... to	..... to .....
Smilax	10.00 to 16.00	10 00 to 16 00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50 00
" " bunches	20.00 to 35.00	20 00 to 35.00
" Sprengeri "	20.00 to 35 00	20.00 to 35 00
	.... to	..... to .....
Lilac, per bunch	..... to	..... to .....

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

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Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

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WHOLESALE FLORISTS
55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

Violet and Carnation Growers
Will find a reliable market with
W. H. GUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
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WHOLESALE FLORISTS
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Tel. 2559 Madison Sq.

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Wholesale Florist
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Telephone No. 325 Madison Square.

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Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

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PITTSBURG CUT FLOWER CO., Ltd. 504 Liberty Ave. PITTSBURG, PA.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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Telephones, 798-799 Madison Square
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THE ORIGINAL
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FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

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JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Feb. 18	BALTIMORE Feb. 21	BUFFALO Feb. 21	PITTSBURG Feb. 20
ROSES				
Am. Beauty, fan. and sp.	..... to 50.00	... to ...	40.00 to 50.00	50.00 to 60.00
" extra	..... to 40.00	40.00 to 50.00	25.00 to 30.00	30.00 to 40.00
" No. 1	8.00 to 10.00	25.00 to 35.00	15.00 to 20.00	15.00 to 20.00
" Lower grades	6.00 to 8.00	6.00 to 15.00	2.00 to 5.00	6.00 to 10.00
Bride and Maid, fan and sp.	8.00 to 12.00	..... to	..... to	15.00 to 18.00
" " extra	6.00 to 8.00	..... to 10.00	10.00 to 12.00	10.00 to 12.00
" " No. 1	..... to	..... to 8.00	6.00 to 8.00	6.00 to 8.00
" " Lower gr.	3.00 to 5.00	5.00 to 7.00	2.00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	6.00 to 12.50	..... to	..... to	18.00 to 20.00
" extra	..... to	..... to	10.00 to 15.00	15.00 to 18.00
" No. 1	..... to	..... to	6.00 to 8.00	6.00 to 10.00
" Lower gr.	..... to	..... to	3.00 to 5.00	4.00 to 5.00
Golden Gate, Ivory, Chatenay } Best	6.00 to 12.50	..... to 10.00	8.00 to 10.00	10.00 to 12.00
Golden Gate, Ivory, Chatenay } Medium	6.00 to 12.00	..... to 8.00	5.00 to 6.00	6.00 to 8.00
Golden Gate, Ivory, Chatenay } Culls	4.00 to 8.00	5.00 to 6.00	2.00 to 4.00	3.00 to 8.00
Perle	..... to	... to	..... to	3.00 to 4.00
CARNATIONS				
Fancy Class	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	5.00 to 6.00
General Class	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Lower Grades	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 2.00
VIOLETS				
Special	.75 to 1.00	..... to .75	.75 to 1.00	1.00 to 1.25
General	.50 to .75	.50 to .60	.50 to .60	..... to .....
Single	.25 to .35	.40 to .75	.40 to .50	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .15
BULBOUS				
Lilies	10.00 to 15.00	10.00 to 12.50	10.00 to 15.00	12.00 to 18.00
Lily of the Valley	..... to 4.00	3.00 to 4.00	2.00 to 5.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Paper White Narcissus	... to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Trumpet Narcissus	3.00 to 4.00	..... to 3.00	2.00 to 3.00	4.00 to 6.00
Tulips	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Callas	8.00 to 10.00	6.00 to 10.00	8.00 to 10.00	10.00 to 15.00
Freesia	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to ...	2.00 to 4.00	3.00 to 5.00	1.00 to 4.00
Sweet Peas	..... to 1.00	..... to 1.00	.50 to .75	.50 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	10.00 to 12.00	... to .....
Smilax	12.50 to 15.00	15.00 to 25.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	40.00 to 60.00	30.00 to 50.00
" " bunches	..... to	25.00 to 50.00	25.00 to 50.00	25.00 to 40.00
" Sprengeri "	..... to 35.00	25.00 to 50.00	25.00 to 50.00	40.00 to 60.00
Freesia	..... to	..... to	..... to	3.00 to 4.00
Lilac, per bunch	..... to	... to ...	..... to	..... to .....

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

Mushrooms grown in flats and surrounded by spawn and mushroom literature was a prime attraction in the window of a Chicago seed house recently.

Among the bulbs injured by the recent freeze in south of France, freesias are the worst sufferers, and these bulbs will be very scarce from those districts. This will not seriously affect the American supply or price, as the bulk of the stock required for the American trade comes from California and Bermuda.

UNCLE SAM AS A SEEDSMAN

Each session of Congress witnesses the uplifting a handful of heroic souls who eloquently denounce the iniquity of the free distribution of seeds. This gives them repute in the public prints as faithful guardians of the exchequer. The seed appropriation is passed in the usual way, and the issue sags into peace for another twelve months.

There are two kinds of government seed distribution — scientific and political. One is carried on for the benefit of the agricultural interests of the country, the other for the benefit of Congressmen.

In the scientific distribution, new varieties of seeds are sent to educated observers for experimental purposes. The results of this distribution are invaluable. In the political distribution, garden and flower seeds are sent out by the Congressmen, who furnish the names and leave the manual labor to the Agricultural Department.

This kind of seed distribution is an application of the Cockran theory that the government should pay election expenses. The $200,000 or so spent on seeds is an indirect appropriation to that end.

There is a mistaken notion that the bucolic statesmen alone are responsible for the government's competition with private seed companies. City Congressmen like to exploit this myth; but while their constituents have no use for pumpkin and rutabaga seeds, flower seeds are welcome, even to the tenement dwellers who can support only a window garden.

Mr. Tawney, a famous Minnesota seeker after truth, wants to know why the Government should not distribute Durham bulls as well as seeds. The reasons are simple. In the first place, many farmers prefer Holstein bulls to Durham. In the next place, people who live in a five-room flat cannot pasture a Durham bull. What would happen on the east side if the Hon. "Big Tim" Sullivan should undertake to distribute Durham bulls to his constituency? Everybody would say "Tim's batty," and it would cost him his seat at the next election. — *New York World.*

TREE SEED CROP IN GERMANY

The crop report of Conrad Appel, Darmstadt, Germany, says that while the crop of Quercus robur is not so good as that of Quercus pedunculata (both however fair), Quercus rubra, on the other hand, is reported to have yielded very little, and Fagus sylvatica failed altogether. Others, such as Acer platanoides and Acer pseudo platanus, Alnus glutinosa and Alnus incana, Betula alba, Carpinus betulus, and Fraxinus excelsior have been secured in sufficient quantities.

Picea excelsa has been doing well in some districts. The yield of Larix europæa also is satisfactory and prices are cheap. Abies pectinata yielded an average crop. Of Pinus strobus, only in some isolated cases could average quantities be gathered on this side. The crop of Pinus cembra turned out very small, whereas Pinus maritima and Pinus montana also Pinus corsica are satisfactory in quantity and in quality. Of Pinus austriaca, little has been harvested and good quality is much in request.

GRASS AND FIELD SEED CROP IN GERMANY

The January report of Conrad Appel, Darmstadt, Germany, states that the crop of 1904 of the various kinds of grass seeds is very satisfactory on the whole and prices lower than for years. As to red clover, it appears that the western districts including the Palatinate will produce very little more, if anything, whereas the crop of Württemberg is now arriving on the market. It is however not expected that it will influence prices in any way, as the seed is rapidly being bought up by dealers. At the present moderate prices of luzern a purchase can only be recommended. White clover is exceptionally cheap and of excellent quality. Alsyke yielded only an average crop in Germany, likewise in Canada, so that markets are higher than last year. Yellow trefoil is also high in price owing to a short crop, and crimson clover has arrived at almost prohibitive prices, nearly all the stocks being cleared. Sufficient has been harvested of common sainfoin in Moravia, but seed producing 2 cuts is much sought for at advanced prices. Offers in lupins and in seradella are scarce; very high prices are asked and paid for the latter, Spring vetches are tending upwards, while sand or villous vetches, peas for sowing purposes, white mutard and spurry are quoted at acceptable rates.

Summer Flowering
BULBS

	100	1000
Ismene Grandiflora	$6.00	$50.00
Madeira Vines	1.00	8.00
Spotted Callas	3.00	25.00
Tritoma Pfitzeri	7.00	60.00
Gladioli, mixed, 1¼ in. diam.	.60	5.00

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Special price on large quantities.
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will also prove valuable at other seasons as it is practically everblooming!
35c. ea., $3.50 doz.
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READY APRIL 15TH
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Two or more cases at - $7.50 per 1000

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Variegated Lawson, White Lawson, Daheim, Fiancee, Cardinal, Fred Burki, Victory, and all standard varieties.

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Hotbed sash and construction lumber.

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J. M. Thorburn & Co., New York. Selected Berlin, per hundred, $2; per case, $32.50.
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Vaughan's Seed Store,
Chicago and New York,
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Illustrated Catalogue of Palms, Orchids and all desirable greenhouse plants.
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M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
For page see List of Advertisers.

John N. May,
Summit, N. J.
For page see List of Advertisers.

C. M. Niuffer,
Springfield, O.
Rose Plants. Write for prices on Hbyrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
For page see List of Advertisers.

ROSES GRAFTED.
Montrose Greenhouses,
Montrose, Mass.
All the best varieties
For page see List of Advertisers.

S. S. Pennock,
Philadelphia, Pa.

SCOTT FERN.
John Scott,
Keap St. Greenhouses,
Brooklyn, N. Y.
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SEEDS.
W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

George C. Watson, Juniper & Locust Sts., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, 342 W 14th St., New York
Gloxinias, Tuberous Begonias, etc.
For page see List of Advertisers.

S. S Pennock, Philadelphia, Pa
Asparagus Plumosus nanus.

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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Wm. Henry Maule
Philadelphia.
For page see List of Advertisers.

W. Atlee Burpee & Co.,
Philadelphia.
For page see List of Advertisers

Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston.
Cyclamen and White Globe Stock.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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SHEEP MANURE.
Robert Simpson, Clifton, N. J.
For page see List of Advertisers.

STEAM TRAP.
E. Hippard,
Youngstown, O
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SOUTHERN SMILAX.
E. A. Beaven,
Evergreen, Ala.

VEGETABLE AND FLOWER SEEDS.
Henry F. Michell Co.,
Philadelphia.

VENTILATING APPARATUS.
Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

Pierson-Sefton Co., West Side Av., Jersey City, N. J.
See outside cover page.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
See outside cover page.

WHOLESALE FLORISTS.
For page see List of Advertisers.
George A. Sutherland Co., Boston.
N. F. McCarthy & Co., 84 Hawley St., Boston
Welch Bros., Boston
Wm. F. Kasting, Buffalo, N. Y.
J. A. Budlong, Chicago.
Chas. W. McKellar, Chicago.
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W. F. Sheridan, New York.
Young & Nugent, New York.
Ford Bros., New York.
E. C. Horan, New York.
A. L. Young & Co., New York.
Moore, Hentz & Nash, New York
Jos. S. Fenrich, New York.

WHOLESALE FLORISTS.
For page see List of Advertisers.
Frank Millang, Flower Growers' Market, 55-57 W. 26th St., New York.
John Young, New York.
Julius Lang, New York.
W. H. Gunther, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516-1518 Sansom Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia.
S. S. Pennock, The Wholesale Florist of Philadelphia
Fred Ehret, 1403 Fairmount Ave., Philadelphia Established 1890.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa
Pittsburg Florist Ex., Pittsburg, Pa.

New Offers in This Issue

ASTERS.
J. H. Lock,
41 Manchester Ave., Toronto, Can.
For page see List of Advertisers

CALIFORNIA ASPARAGUS.
C. A. Bennett,
Robbinsville, N. J.
For page see List of Advertisers.

CARNATIONS.
Henry Eichholz,
Waynesboro, Pa.
For page see List of Advertisers.

CARNATION CARDINAL.
Chicago Carnation Co., E. G. Hill Co., and S. S. Skidelsky.
For page see List of Advertisers.

CARNATION WHITE LAWSON
Chicago Carnation Co.,
Joliet, Ill.
For page see List of Advertisers.

CARNATIONS, VIOLETS, CHRYSANTHEMUMS.
William Swayne,
Kennett Sq. Pa.
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DAHLIAS.
L. K. Peacock, Inc.,
Atco, N. J.
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GREENHOUSE MASON WORK.
H. H. Sylvester,
818 Tremont Bldg., Boston.
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GREEN SILKALINE.
John C. Meyer & Co.,
80 Kingston St., Boston.
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PETUNIA
L. W. Acheson,
Hamlin St., Pittsfield, Mass.
For page see List of Advertisers.

SEEDS.
Conrad Appel, Darmstadt, Germany. Estab. 1789. High Grade Grass, Clover, and Tree Seeds
Schlegel & Fottler Co.,
26 S. Market St., Boston.
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SEEDS, BULBS AND PLANTS.
Clucas & Boddington Co.,
812 & 814 Greenwich St., New York.
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SECOND-HAND BUILDING MATERIAL.
Chicago House Wrecking Co.,
Chicago, Ill.
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SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.
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SPIRÆA JAPONICA.
Schlegel & Fottler Co.,
26 S. Market St., Boston.
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STERILIZED SHEEP MANURE.
W. Elliott & Sons,
New York.
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SUMMER FLOWERING BULBS.
John Lewis Childs,
Floral Park, N. Y.
For page see List of Advertisers

Greenhouses Building or Projected

WEST MILAN, N. Y. — C. Williams, violet house.

SHARON HILL, PA. — Robert Scott & Son, house 54 x 180.

J. C. Moninger reports the following:

INDIANAPOLIS, IND.—Smith & Young, two houses, each 44 x 300. Concrete walls, iron gutters, bars 24 and 26 ft. long, height to ridge 19 ft., 7 ft. under gutters, ventilators both sides of roof, 6 tile benches, each 5 ft., 2 in. wide, in each house. J. A. Helfrich, house 16 x 60 and one 26 x 60.

News Notes

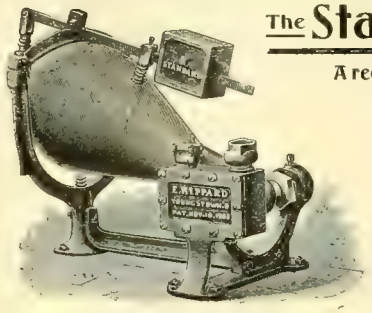
Carnation John E. Haines scored 85 points at the Chicago Florists' Club.

A hearing before a committee of the Massachusetts legislature on February 20th, on the subject of a state flower, brought out a large attendance, mostly women, in advocacy of the mountain laurel for that honor. Jackson Dawson, who is credited with having first suggested this as an appropriate flower, was present and spoke in favor of its selection.

"I reckons," said Miss Miami Brown, "dat what de young gemmen needs nowadays is mo' scientific education."

"What makes you think so?"

"I was done stan'in' under de mistletoe foh half an hour but foh all dem young gemmen knowed 'bout botany it might as well have been a cabbage leaf." — *Washington Star.*



The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return.

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio,

Business Changes

W. C. Cook has opened a florist and nursery business at Kalamazoo, Mich.

New seed house. — Taylor & Rogers, 416 East Locust street, Des Moines, Ia.

Willam Gerke has bought out the greenhouse business of John Geddes at Girard, O.

B. L. Elliott, Pisttburg, Pa., has sold out his business and greenhouses to L. I. Neff.

George Purdue, 373 Main street, East Orange, N. J., has made an assignment for the benefit of his creditors.

L. K. Peacock, Inc., successors to W. P. Peacock and L. K. Peacock, Atco, N. J., have been organized with L. K. Peacock, president; W. P. Peacock, vice-president; A. M. Peacock, treasurer; G. E. Cain, secretary; L. K. Peacock, W. P. Peacock, S. S. Pennock, Thomas B. Hall, and Adam Schlorer, directors. They have ample facilities for a big business, including seven new greenhouses (new or rebuilt), four shops, two cellars, and a three-story warehouse, 30 x 100.

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H. H. Sylvester

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Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

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Tel. North 1626 and 1627

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Sold by SEED DEALERS and MERCHANTS ALL OVER AMERICA.

Send for Pamphlet on BUGS, BLIGHTS and BIRDS, to

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Fishkill-on-Hudson, N. Y.

"Grape Dust," "Solution of Copper," Twemlow's Liquid Putty, Bordeaux Mixture, Horicum, L. S. & S. for San Jose Scale.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

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We are taking orders NOW for late Spring Delivery. We DO NOT advice DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

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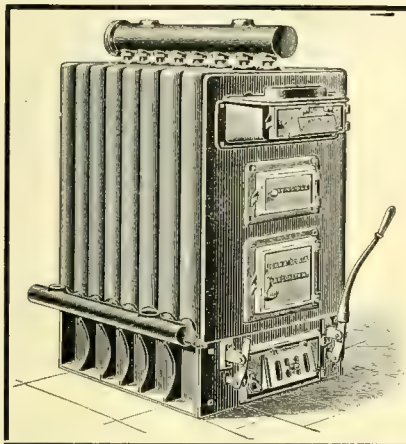
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Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn New York City

Write for Catalogue and Special Prices

The ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps.*

The ANGLE LAMP

is *guaranteed* as *represented* in every respect, or *money* refunded.

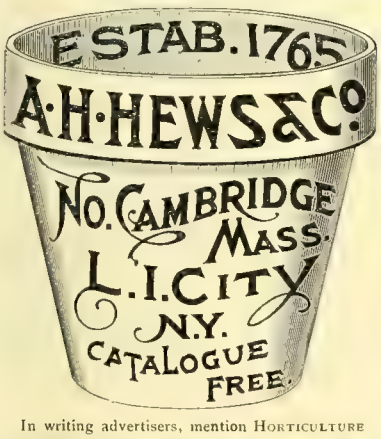
The ANGLE LAMP

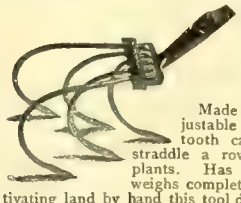
gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

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SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied — ***Send $1.25 for the tool and you will get it by first express.***

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Reference for my responsibility: — Dunn's or Bradstreet's or Union Bank, Jackson, Mich.

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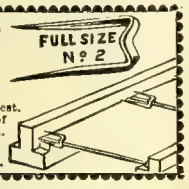
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VENTILATING APPARATUS
"BURNHAM" BOILERS

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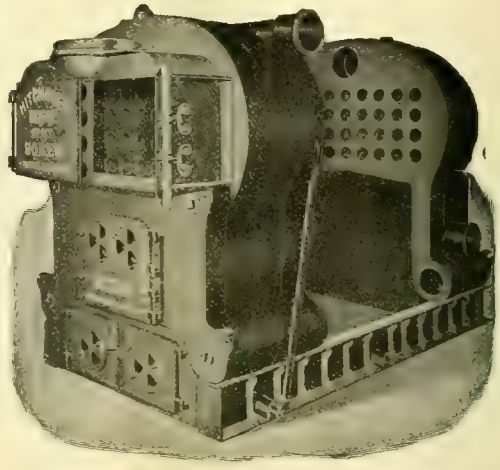
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NEW MOGUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

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819 Tremont Bldg.

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Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.

We manufacture and erect every type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot-bed sash and frames. Special hand-made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.



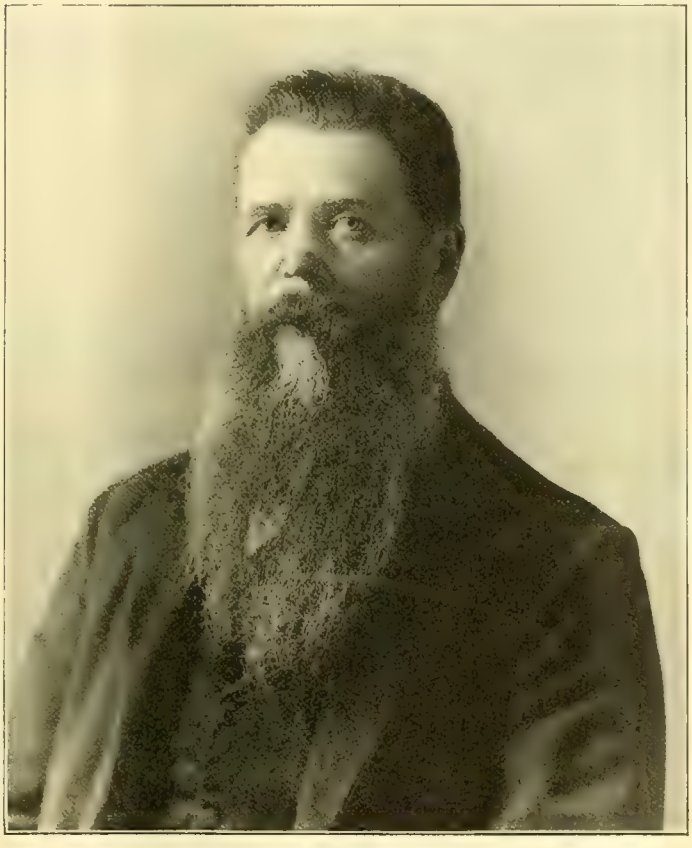
Interior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

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HORTICULTURE

Vol. I MARCH 4, 1905 No. 14

MASSACHUSETTS AGRICULTURAL



THE LATE FARQUHAR MACRAE

Obituary in Issue of February 25

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00



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Nevertheless, as the full time and attention of the introducer are now fully demanded with other lines of his business, in planning to directly close out the limited balance of the originally grown stock of

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As a standard novelty the sterling values of this fern develop more and more daily, hence this offering is no reflection on its true merits.

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MONTROSE, MASS.

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ALICANTE, berries large, round, large bunch. Late keeping.

APPLEY TOWERS, fine black sort, following Black Hamburg. Excellent flavor.

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GROS COLMAN, monstrous, round berries, juicy and sweet. Not good until fully ripe in late autumn.

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MADRESFIELD COURT, berries very large; of true muscat flavor. Rich and excellent.

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MRS. PEARSON, large oval berries, transparent golden color. Luscious and juicy.

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Strong Planting Canes; each $3.50

Lily of the Valley Selected Berlin Pips

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HORTICULTURE

VOL. I | MARCH 4, 1905 | NO. 14

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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NEXT WEEK'S NUMBER will contain interesting articles by W. H. Adsett on British Horticulture, William Swan on Grapes under Glass, and A. Hans on Aspleniums.

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Dendrobium Wardianum

Dendrobium Wardianum is one of our easiest dendrobes to grow and though we do not frequently see it as luxuriant as the photograph shows, yet it readily responds to generous treatment. Once its requirements are determined, the rest is easy. To get a vigorous growth is essential for a generous display of flower, but some plants break much more readily than others. The plant illustrated has invariably commenced growing about the time the previous growth is maturing, and every encouragement is given the new growth. We hang the plants up near the roof in the cattleya house, where they get plenty of air, though shaded from the direct rays of the sun while growing, and a little stimulating food is given at regular intervals until the growths show signs of maturing, when the plants are removed to a cooler house, where they get abundance of air and all the sunlight possible, but the water is reduced to just sufficient to keep the bulbs plump. They remain in this house until the buds commence to swell, when they are returned to the house where they were previously grown, and the buds swell out rapidly and soon attain their full size. The plant illustrated is growing in a five-inch shallow pan. The growth was four feet and six inches in length, and carried seventy-five large blooms, but owing to its great length, the camera could scarcely do it justice. The picture is sufficient, however, to convey an idea of how beautiful the growth looked when completed. At the present moment there is a new growth about two feet long started on the same plant. We make a practice of removing the old growth with the flowers, and the plant does not appear to resent this treatment.



Alfred J. Loveless.

Lenox, Mass.

Chlorophytum elatum variegatum

This old, useful, and favorite plant, I believe was originally sent out in 1874 or 1875, under the name of Anthericum variegatum, and specimen plants in 6- or 7-inch pots were worth at that time $5 each. As a decorative plant it was a novelty and advertised to supercede Pandanus Veitchii, but this promise was never realised, although it is often used now in decorations, and gives a nice effect as a border for latanias and aspidistras in dark corners and fireplaces. It was formerly used frequently in competitive groups, and is always capable of producing a good effect by reason of its well-marked foliage, either as a raised, isolated example, or among the lower plants constituting the margin.

I remember, some ten or twelve years ago, it was used quite extensively in out-door planting in shady places. In parks of Washington, D. C., for several years, it was planted as a border for a circular bed of ferns, also for one of Brazilian caladiums, which throve well under the stately old elms in Franklin and Lafayette parks. I also saw it as a border for tuberous begonias, where it created a pleasing effect. Pans of about three specimens, edged with a few plants of Carex Japonica and grown in a temperature of 50 degrees for about four weeks, will make as good and salable a plant for florists' general purposes as any other that I can think of, and with less care, as, when once potted it can be almost left to its own devices.

David D. Thowell

Cinerarias for Easter

The improvement in horticultural buildings for the last few years has been so marked that the old-fashioned structures, in so far as the production of cut flowers is concerned, are knocked out of competition. But if we consider the great and growing demand for potted plants, especially at the holidays, we may conclude that the old-style house is still of some value. In fact, for most pot plants, I think they are the best, the flickering shade of their more numerous sash bars being more acceptable than the full glare of light so essential to success in the production of cut blooms. Especially is this so in the successful cultivation of the cineraria.

My ideal house for Easter cineraria is one after the style of a pit, built running north and south, and the roof rather flat, so that they get enough light to keep the plants stocky, but not enough sun to warm them up and encourage them to bloom. If possible, have a cement floor, not too evenly laid, but so that it will hold a pool of water here and there, for the cineraria likes a cool; damp atmosphere.

I will not presume to instruct the craft in all the little details necessary in the first stages of culture, but will endeavor to give a few hints about the cultivation of fine, large specimens for the Easter trade. First and foremost, be sure that you have a good strain that will give you good colors and flowers at least three inches in diameter; if you are not sure, don't risk time and space with them.

We will suppose that you have procured seed of a good strain, or, what is better, raised some for yourself and are satisfied that they are all right, and have sowed some time in May or June first, so as to have nice, stocky plants in 6½ or 7-inch pots, for Christmas. Before giving these Christmas plants their final shift, pick out all that have a tendency to run up tall and have large leaves,— those plants that you know do not look well when they are bloomed in a small pot; these make the best plants for Easter specimens.

Set them by themselves and let them become somewhat pot-bound and the flower stem pretty well run up before giving them a shift. This treatment has a tendency to encourage the immediate production of side shoots and suckers at the base, and when they are repotted into a large well-drained shift, say a seven-inch, and kept cool, say 35 degrees by night and 45 to 48 degrees by day, the side shoots and suckers will grow, while the main flowering shoot will be very much retarded, — in fact will come along so slowly that the suckers will grow up and make a plant from two and a half to three feet through, and they and the main shoot will bloom together. They should be set up on inverted pots, until almost touching the glass, and lowered when necessary; this helps to check the main stem, allows a good circulation underneath, and provides an opportunity to keep tobacco stems pretty close to the foliage. Green-fly should never be allowed to set foot on them. Prevention is the only cure, if you are to have clean, healthy plants.

The next and final shift will be to nine- or ten-inch pots; this should be done as soon as the roots touch the drainage, for, if allowed this time to get the least pot-bound, that main stem will commence to wake up quicker than is desired. This retards him again, and gives the side shoots another chance. The buds on the main stem will be growing very slowly, but very strong; they will look blind and as if they would never flower, but they will, and that so strong and sturdy as to have better staying qualities than any other flowering plant in the market at Easter. All ventilation should be from the top and even in fairly cold weather, if you can do so with safety, leave a little crack on all night; it will help to keep the plants strong and stocky. They must have plenty of room; crowding cannot be allowed. By February the side shoots will be pretty well along and forming buds.

The date of Easter will have to determine whether you will require to push them gradually or keep them back. By March first the sun will be getting strong enough to necessitate a light shading, and if Easter should be late, as it is this year, an additional shade of cotton cloth may be necessary.

In regard to compost, I will treat only on that given at the final shift. I have always found four parts turfy loam, one part leaf loam, one part cow manure, saved from a pasture, a few shovels of sand, a liberal sprinkling of lime, wood ashes and bone flour, a good compost.

Give good drainage. A handful of inch bone, which has been lying in a damp corner for six months, thrown on top of the drainage will be beneficial when the roots reach it. I do not believe in liquid manure for the reason that a plant fed in stimulants will not have the staying qualities of one that gets its food regularly and gradually. A better plan is to get some goose quills and fill them with dry, well-pulverized sheep manure and soot, well-mixed, stop up the open end and cut a slit about five inches long down one side, with the point of a sharp knife. Insert six or eight of these around the edge of the pot at the final shift and the plant will get it about the time it needs it.

Keep in mind that you cannot come any of your "Yankee hurry-up" methods and throw water out of a hose at these plants, if you are to have success. Careful and regular attention to watering with a watering-pot is one of the main secrets. Neither should it ever be necessary to fumigate or dip them. Keep tobacco stems under them always, and if they are clean when they leave you, the lady will have no cause to exclaim, "Oh! the horrid lice! They will be all over the house! Take that plant away!"

Properly grown, they will, I believe, become the most popular of plants for Easter decoration, fit for any exhibition hall, but none too good for the ever-increasing demands of our plant-buying, plant-loving public.

Geo. M. Anderson

Ferns for Every-day Use

Asplenium is another genus of the fern family represented by numerous species; the spore cases are in linear dots, sometimes long, sometimes short, set generally in an oblique way on each side of the midribs. Sometimes they are forked, as in A. celtidifolium, and in a few cases nearly parallel alongside with the midrib, or veins, as A. serra and A. dimidiatum.

The sections Cuasplenium, Darea, Diplazium, and others are evergreen and most of them of a heavy, succulent texture. The section Athyrium lose, or partly lose their fronds in winter. Among aspleniums are a few big-growing species, most of them are medium size and some dwarf. These, when well cultivated, are nice, bushy plants of great service for table decoration. They are mostly all hardy, not difficult to grow, and like fibrous loam, peat, or leaf mould, with sand and a good drainage. Some of the smaller ones that are found in nature, growing on rocks, old walls, or on tree trunks do better in fibrous peat, or non-fermented leaf mould and sand mixed with small, broken sandstones or bricks; some like old mortar. They do not all require the same temperature; this is in accordance with the climate where they come from. A peculiarity of a great number of Aspleniums is their proliferous and viviparous nature; that is, the way they grow bulbils at the end of the fronds, or all over their leafy part. When those bulbils come in contact with soil, they soon take root and a young plant grows up from it. The quickest way to propagate those that produce bulbils all over the fronds, like A. bulbiferum, A. viviparum, etc., is to cut the fronds well provided with them and lay them in a box or pan filled before with loose soil covered with a thin layer of sand. The fronds have to be kept steady with little wooden pegs. When the bulbils grow little leaves on the fronds, they can be detached and planted directly in pans till they are rooted. In both cases they have to be kept air-tight. The others are propagated by spores that are sometimes slow to show life.



A few of the best among the many species are in a section with undivided fronds, and may be coarse looking, but are ornamental and showy anyhow. A. Nidus and its forked form from Japan and South Asia, the "birds'-nest fern," with long, broad, shiny fronds is well known. A. N. australasica from Australia looks much like the other. A. N. musæfolia is a noble plant, the fronds often five feet long, broad in the middle and narrow at the base.

A. ensiforme from Himalaya, A. plantagineum from West Indies, and a few others are of the same style, but much smaller. The fronds are more or less long-stalked. A. Hemionitis or palmatum from Africa, east coast island, is a very distinct species, with long

stalk, long broad ivy-formed fronds from four to six inches each way. There are two curious forms from it, A. h. cristatum and A. h. multifidum. The first is crested at the ends; the other has the main divisions deeply cut in narrow strips.

The caudate section grows young plants at the end of the fronds. A. alatum from West Indies has the fronds from one to one and a half feet long, narrow and arching, simply pinnate; the pinnæ, about three inches long by one broad, are bluntly dentated. The characteristic of this species is a semi-transparent wing-shaped appendage that grows all along the stem through the leafy part. A. brachypteron from Madagascar resembles much the preceding; the pinnæ are deeply cut in narrow strips. A. mizophorurh from West Indies has the fronds spear shaped, terminated by the continuation of the naked stalk, which grows very long, thin, and pendulous, with a bulbil at the end. The pinnæ, spear shaped, are sometimes bluntly dentated and sometimes they are bipinnate with very small pinnules. There are all kinds of forms between these two. A. caudatum from Central America and Polynesia, with fronds one to two feet long, has numerous pinnæ, two to four inches long, spear shaped and sharply dentated, as in the preceding one. The frond is terminated by a long, thin appendage, growing a bulbil at the end. A. longissima from the South Sea Islands has the fronds about three feet long, four to six inches broad all the length; not unlike a nephrolepsis frond in form. The pinnæ are blunt, spear shaped, eared at the base and dentated, of dark-green color, the stalk nearly black. It produces a young plant near the end of the frond. All the plants of this section are of pendulous habit and do well in hanging baskets, where they can show all their beauty.

A. obtusilobum from the New Hebrides does not belong to the above section, but is a hanging-basket plant too. It is a little creeping fern. From the base of the plant between the fronds grow some runners, which take root and produce plants which again produce other runners, until the whole is a network of runners and little plants. The fronds, six inches long and two broad, are finely cut, of a bright, shining-green color.

The section growing bulbils all over the fronds is represented by a few species only: A. bulbiferum from New Zealand and Australia is the best known and most widely cultivated. It is of rapid growth, has much-divided fronds of a dark-green color, and is very resisting. A. b. Fabianum is of the same appearance, is more finely divided, and richer in foliage. A. b. laxum is dwarfed, very leafy, and finely cut. A. Colensoii from New Zealand is a diminutive of bulbiferum. The fronds very crowded, six to eight inches long. At maturity they are all covered with young plants.

A. viviparum is from Mauritius. This fern has broad fronds, one to two feet long, three and four times divided in very fine segments. With its feathery appearance, it is certainly one of the nicest ferns. A. v. nobilis has fronds cut the same way, only the segments are longer and habit more drooping.

Amédée Hans

(To be continued.)

Bridesmaid's Hat



These hats were particularly appropriate for the gowns that were worn at an early spring wedding, and to be most effective should be carried quite carelessly. Some people thought the Japanese plum blossoms, for this arrangement, were even better than roses, carnations, violets, or lilies of the valley.

W. H. Battles,

A Practical Help

We hope you will like HORTICULTURE and recommend it to your friends in the trade. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

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A special advantage given to advertisers in HORTICULTURE, *without charge*, is the Buyers' Directory which tabulates the advertisers in each issue of the paper under the respective heading of the goods offered. This is a convenient ready reference for buyers, and its value to advertisers is obvious, being in fact a *double* announcement without extra cost.

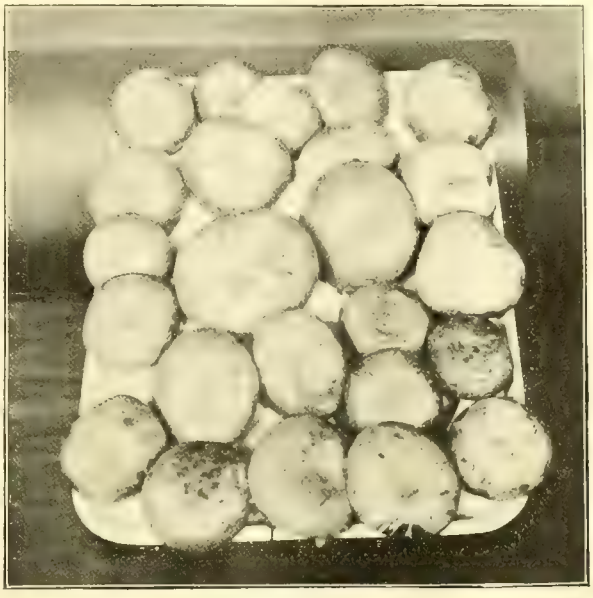
Mushrooms

As we are all painfully aware there are many fungi which are injurious to crops, as carnation rust, violet-leaf spot, rose mildew, and a host of others too numerous to mention; but, as in nearly every large family of the vegetable world, there are members which are distinctly friendly to man, and the edible mushroom (Agaricus campestris) is one of these.

From September to January is the best time to start a bed, but it is not too late to make one up even now, which will give fair returns before hot weather. Of course the best markets will pay a smaller price.

The material for the bed is fresh horse droppings, free from long straw, sawdust, shavings, or material of a similar nature. This is put in a pile under cover, with one part good meadow loam to four parts of manure, and turned every day for ten days By that time it should be ready for the beds. These are made under greenhouse benches, in caves, cellars, or sheds where the temperature doesn't fall below fifty degrees at any time. The least desirable place is under the benches, because of the drip, but still good results can often be obtained there. We have one bed of about 60 square feet, from which over forty pounds have been taken, and this is under a bench. The beds are made 12 inches deep by putting layer after layer of the prepared material, packing each layer firmly into place. A thermometer put into the finished bed will run up to 100 degrees or more in the course of a day or two, and then begin to fall. After the temperature drops below 75 degrees the planting may be done.

The mushroom is propagated from mycelium or threads which correspond to the roots of higher plants, these filaments being grown in horse manure, which is in flakes or pressed into bricks. This is spawn. One kind giving great promise is Columbia, of American manufacture. The grower breaks these bricks up into cubes about two inches in size and puts these into the bed 2 inches deep and 10 inches apart, pounding manure firmly down upon them. No further care is required until by digging up a chunk, white threads are to be seen running into the surrounding bed.



Prize-winning Mushrooms

Grown from Pure Culture Spawn, by Stevens & Co., Dedham, Mass.

"Casing" follows this appearance of the threads, and consists of covering the bed with an even layer of good, light, garden-soil to the depth of one inch.

In six weeks the first mushrooms appear, and from now on the bed will bear steadily for several weeks, if the conditions are favorable. The temperature should remain at 55 degrees, both day and night, if possible, and the whole bed darkened from the first. After the bed begins to bear it may become so dry as to necessitate watering. If the water is at 90 degrees, no harm will result.

Mushrooms are plucked when the frill opens, showing the gills by gently twisting the cap. They are not washed, merely the base cut off, and then all packed in receptacles holding one pound and shipped to market.

R. L. Adams Mass. C. Ex '05

If you have orders to give for any flowers, plants, or horticultural material of any kind, do not fail to give Horticulture's advertisers a chance. The best houses are represented in our advertising columns.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The meeting and exhibition of the American Rose Society at Boston is now only three weeks away. Much quiet but effective work on behalf of this event has been done by the friends of the society and the queenly flower to which its allegiance is pledged, and assurance is now given of an exhibition and enthusiasm which cannot fail to awaken renewed ardor and materially advance the interests of rose cultivation as a pastime or as a profession. Boston is prepared to make good her promise of an exhibition such as has never been seen in this country, and she is also eager to extend to the visitors who may honor her with their presence on this occasion a hearty welcome.

The *Florists' Exchange* comments approvingly, as did Horticulture in an earlier issue, on the evidences of increasing activity and interest in club and society work at the present time, and observes further that prosperity in these organizations depends largely upon the selection of men for office who are willing to work. To this proposition we heartily agree. When you hear of a club run down and unable to secure a quorum at its meetings, the cause will almost invariably be found as above indicated — in the incompetency or neglect of its responsible officials. A man imbued with the right spirit and willing to do unselfish work, can make a success of any club or society. A club encumbered with the other kind is to be pitied.

Conceding that a large proportion of the funeral designs carried daily through the thoroughfares leading to the cemeteries in the big cities are a humiliating end for good flowers to come to, yet so long as the custom continues of sending these funeral tributes, undertakers and others handling them should be forced to accord them better care than they do in the majority of cases. Floral pieces are gathered up by armfuls, thrown haphazard into open vehicles, often in a winter atmosphere, and, carried through the streets in this condition, are not the least pitiable part of the sad procession. Without considering the tender sentiments these offerings are supposed to voice, the florist should, for the credit of his own profession, insist that they receive decent treatment. The abuse complained of is on a par with the "crepe chaser" nuisance and the use of second-hand wire frames from the cemeteries. All three are live subjects for florists' club attention.

The news of the death of John Spalding, the grand old man of New London, Conn., brings with it a flush of sadness, for the passing of such a man, even though at the ripe age of 91 years, comes always too soon, and we realize that horticulture and humanity are poorer because of an inevitable loss. Mr. Spalding was a true representative of the highest type to which the gardener may aspire, — a man full of kindness and sunny disposition, whose life was a blessing to all who came in contact with him. The story of his long and useful life, — from his infancy in Woodside, Scotland, until the last two years during which he has sat, cheerful and resigned, in utter blindness; of the many pathetic struggles, especially of his early days; of his love for the work, inherited from a father who must have been just such a man as himself, — was always profoundly interesting as he told it and loved to tell it. He never was known to speak an uncharitable word of his fellow-man His was one of simplicity and loving service, the life of a noble man.

Among the complaints regarding market values heard this season, the Lawson carnation figures prominently, disappointment being freely expressed by growers because this flower did not reach the prices of former years. The cause of the decline is undoubtedly due to the growers themselves more than to any other agency. Growers are too often influenced by current prices in planning for their next year's crop and plant heavily of that variety which is the most profitable for the time being, overlooking the certainty that other growers will think and do precisely the same thing with the result that, as has been the case with Lawson, the quantity of one variety is away out of proportion to the necessities of the market, and the inevitable follows. Certain flowers we have in mind are reputed to have turned in the best profits the present season. For the reasons above alluded to the wise grower will think twice before planting heavily to those varieties. The habit of imitation is apt to prove a costly one, for because of it many growers are always one year behind the best prices. He who thinks for himself — who thinks ahead rather than backwards — and who has the courage of his convictions is the one who gets the cream usually.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Horticulture is certainly a great paper, and I wish you all the success you deserve. — H. T.

Enclosed please find my check for $1 to cover the cost of your most valuable Horticulture for the year 1905. I sincerely hope that success is with you every day. If I can do anything for you in this town just sing out. — G. A.

After Adjournment

'T were better to send a cheap bouquet
To a living friend, this very day,
Than a bushel of roses, white or red,
To lay on his casket when he is dead.
Anon.

The Philadelphia Cut Flower Company's blotter, "A Message For You," with its adornment of arrow-pierced hearts and busy Cupid, was a piece of good advertising, well directed, intelligent, artistic, and useful.

The Eastern Nurseries, Jamaica Plain, Mass., are sending to their patrons a beautiful little calendar, hand-painted in colors, the Rhododendron maximum being the decorative subject. This useful evergreen shrub is a leading specialty with the Eastern Nurseries.

Mrs. Anne Weightman Walker added $2 to her fortune of $60,000,000 by winning prizes for the best beans, primroses, and mushrooms displayed at the annual meeting of the Pennsylvania Horticultural Society, in Horticultural Hall.

J. Vaughn Merrick, a millionaire, likewise won $1 for cultivating to perfection the modest primrose. — *N. Y. Herald.*

Who said there was no money in growing flowers?

The florist's clay pig which you could make into a porcupine by growing grass spikes on it, has been improved on by a Broadway dealer. He sells a head made of terra cotta, furrowed on top and over the eyes. Soaked in water until thoroughly wet, fine grass seed is put into the furrows. In a few days a fine crop of green hair and eyebrows will appear. From the varied assortment of physiognomies astonishing results may be obtained. — *New York Sun.*

Fix up a few for St. Patrick's Day.

THE HOME OF THE GARDENIA

The home of the Gardenia as a cut flower in this country may safely be said to be located at Sharon Hill, Pa., a suburb of Philadelphia, where Robert Scott & Son have many houses devoted to its culture. William K. Harris, Robert Craig & Son, and a few others have gone into growing this fragrant, popular favorite in a limited way; but the Scott firm was the first and is now the most extensive. They started some four years ago, and after various and vexatious disappointments with varieties and methods of culture at last succeeded, and are now recognized as the leaders in this specialty.

Pot culture seems to be preferred, although we observed that one of the houses was benched. The explanation seems to be the ease of handling pots, for forwarding or retarding growth as occasion demands; they can be so easily shifted from one place to another, and just the right conditions given to produce results. Besides this there is some little demand for the plants in bloom at Christmas and Easter. A seven-inch pot plant well done has from ten to twenty-five flowers; a ten-inch, from thirty to sixty. A variety called Grand Duke is regarded by Mr. Swartz, who has charge of this department, as very promising. It has larger foliage, larger flowers, and is altogether more robust and vigorous.

"In regard to the treatment of Gardenia," Mr. Scott says, "we have no special culture for them; we just grow them strong in the summer, let them go dormant for a month, and then start them up at a temperature of 60 to 65 degrees, and flower them at 70 degrees, giving them feed when the buds show."

Other features of interest at the home of the Gardenia were a fine lot of Crimson Rambler roses in pots for the Easter trade; house after house of American Beauty and Liberty roses; houses of Brides, Bridesmaids, and Kaizerin, the latter just planted, being intended for a pre-Easter crop; many houses of young stock for the mail trade such as geraniums, roses, carnations, violets, chrysanthemums, and so forth; and last, but not least, an immense lot of grafted roses — young stock on the propagating benches, — especially noticeable among same being American Beauty, which looked very strong and flourishing.

Charles D. Ball, who accompanied us, was particularly interested in two things — (1) a house of Adiantum Croweanum and (2) the pile of hard coal. Mr. Ball does not now grow ferns to any extent, and he has used soft coal since the strike. We are promised a declaration of independence, facts and figures, whys and wherefores of this soft coal proposition at an early meeting of the Florists' Club, and we will all be glad to hear what this close observer and reasoner has to say on the subject.

We did not see the usual house of new Irish roses this year. As is well known, the Messrs. Scott are American agents of Alexander Dickson & Sons of Newtonards, and have handled most of their notable introductions of the last ten or twelve years. The only new thing we noted in the rose line was one called Admiral Dewey, or Admiral Schley — not sure which — but it is fine. About same color as the Lawson carnation, exquisite in the bud, which is long and pointed, shows a bit of the Testout style when full blown, and looks promising.

In saying adieu we must not forget to pay our respects to Miss Gloster. Mr. Scott calls her "the best man on the place," and that's a fine compliment. Miss Gloster has presided over the office for a good many years and has done it well. We could say a good many fine things about Miss Gloster, but her employer's remark covers the ground so completely that it is impossible to improve on it. — G. C. Watson.

Personal

Joseph N. Lipman has resigned as gardener at the S. V. R. Crosby estate, Manchester, Mass.

John T. Withers has accepted a position as manager of the Shatemuc Nurseries, Barrytown, N. Y.

Thomas Knight, representing Julius Roehrs Company, Rutherford, is on a business trip to Manitoba.

Visitors in Boston: B. Suzuki, John Ringier, and L. B. Craw, New York City; Paul Berkowitz, Philadelphia.

J. R. Shield, who has charge of the estate of the late Mrs. J. B. Crane at Dalton, Mass., has been appointed to the superintendency also of the adjoining estate of F. G. Crane.

Martin Simmons, who has had charge of the greenhouses on the F. G. Tefft estate for several years, has resigned his position and accepted a similar position on the Capt. John S. Barnes place, Lenox, Mass.

The jury list of Ward 11, Boston, contains the names of Ed. Hatch and Prof. L. C. Elson. The former the Boston *Journal* calls "prince of bon-vivants and story-tellers," and the latter, "most humorous of musical critics." Both are pretty well known to a large section of the horticultural fraternity.

PHILADELPHIA PERSONALS

We hear of many of the craft on the sick list at present, among them the veteran, William K. Harris, John H. Dodds, C. E. Meehan, Edwin Lonsdale, John Nisbet, and D. T. Connor.

J. Wolff Moore, the Columbia Ave. retailer, has been coming rapidly to the front of late as a decorator for large affairs, not only in the city proper, but among the suburban four hundred. In thus branching out, Mr. Moore is now being ably seconded by Charles F. Edgar, who will be remembered as a figure in the commission business up to last fall.

NEWPORT PERSONALS

Seldom indeed have so many expressions of regret been heard as the death of Farquhar Macrae of Providence gave occasion to. Mr. Macrae was well and favorably known in Newport, being in former years a conspicuous figure at all the exhibitions of the Newport Horticultural Society, besides acting as judge on several occasions. He was much respected by all with whom he came in contact, and news of his death came as a shock to his many friends here.

Visitors last week were Henry T. Moon of the Glenwood Nurseries, Morrisville, Pa., who was here last week in the interests of the firm, and Frank E. Conine of Stratford, Conn., who seemed to be pleased with the appearance of outdoor roses in Newport. There are many dead ones. Dead roses are sometimes of passing interest to those who have good, live ones for sale. Also Fred W Smythe, of Wadley & Smythe, who came to look over the work his men are engaged in. He is very optimistic with reference to the coming summer in Newport.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY

Complete schedules for the approaching rose exhibition at Horticultural Hall, Boston, have been mailed to all members of the American Rose Society, and inclosed with each schedule an entry card. All others not members of the Society can have copies on application to the secretary. The number of special premiums is large and an exhibition of unprecedented diversity and beauty is assured. M. H. Walsh's display of Rambler roses alone will be worth crossing the continent to see, and every one interested in the rose, commercially or otherwise, should take advantage of this opportunity to see a superb exhibition and meet the foremost rosarians of America. Come yourself and bring an exhibit with you.

Exhibits may be sent, prepaid, care of William Nicholson, Horticultural Hall, Boston. For the convenience of exhibitors at a distance, Messrs. Welch Bros., 15 Province St., Boston, have generously placed their refrigerators and other conveniences of their establishment at the disposal of exhibitors who may, if they so desire, ship their boxes in advance to Welch Bros.' care, giving explicit instructions by mail as to what disposition they wish made of them, — whether the boxes are to be kept unopened, or whether the flowers are to be taken out and placed in jars of water until required. All instructions will be carefully complied with.

WM. J. STEWART,
Secretary.

11 Hamilton Place, Boston.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY

The annual carnation exhibition of this Society, February 21st, at the Court Room, was a very fine exhibit, and had a large attendance. In the competitive classes awards were made as follows: —

25 Lawson, F. Boulon & Son, 1st; Walter Shaw, certificate. 25 light pink, Robert T. Hillock, 1st; F. Boulon & Son, 2d, both Enchantress; J. N. May, 3d, with Phyllis. 25 White, F. R. Pierson, 1st, White Lawson; H. T. & A. H. Funnell, 2d, Queen Louise, J. N. May, 3d, The Bride. 25 Scarlet, F. R. Pierson, 1st, J. D. Cockcroft, 2d, both Flamingo. 25 Crimson, F. R. Pierson, 1st, Daheim; H. T. & A. H. Funnell, 2d, Harlowarden. 25 any other variety, Thomas Eccles, 1st, Prosperity; F. Boulon & Son, 2d, Mrs. M. A. Patten; F. R. Pierson, 3d, Variegated Lawson. For roses Walter Shaw took 1st for 12 Bridesmaids and for 12 Liberty. Double violets, H. T. & A. H. Funnell, 1st, William O'Hora, 2d. Single violets, F. Boulon & Son, 1st, Walter Shaw, 2d. Certificates were awarded to the Cottage Gardens for Lieut. Peary and for Robert Craig; also specials for Octoroon, Ethel Ward, and Enchantress. Certificate to James D. Cockcroft for splendid seedling crimson. A vase of White Lawson, not for competition, was exhibited by Charles H. Allen.

The committee very much regretted that, probably through an error, the Cottage Gardens vases contained but 20 flowers instead of 25, as called for by the schedule, and so were disqualified from competing. They were very fine specimens and made a table not soon to be forgotten. Lieut. Peary is a most beautiful white and Robert Craig a splendid scarlet. John N. May's exhibit suffered a little in shipping, so The Bride did not show its full beauty. Other exhibitors who received awards were: —

Fred Keiffer, for mignonette; George Ashworth, for roses, carnations, and antirrhinum; Robert T. Hillock, for daffodils; F. Boulon & Son, certificate for tree violet plants; William O'Hora, for pot plants; H. T. & A. H. Funnell, for specimens Phœnix and Anna Foster fern.

A. H. FUNNELL, *Secretary.*

ST. LOUIS FLORISTS' CLUB

Our annual rose meeting takes place March 9th, 2.00 P.M., and in view of the success of our carnation meeting of last month we are looking forward for a tremendous exhibit, and are making preparations to meet the occasion.

The club has offered fifty dollars in prizes, and growers of new varieties are solicited to show their stock. Blooms must be grown by exhibitors. Growers of other flowers or novelties (plants included) are especially invited, and their product will be cheerfully accepted. Competent judges will be in charge. Roses will be judged according to American Rose Society scale of points. All stock becomes the property of the club, unless otherwise specified. Send all stock, prepaid, care of C. A. Kuehn, 1122 Pine street, H. G. Berning, 1402 Pine street, or F. M. Ellis, 1316 Pine street.

Classes	Prizes 1st	2d
1. 12 American Beauty	$7.50	$5.00
2. 25 Bride or Kaiserin	3.50	2.75
3. 25 Bridesmaid	3.50	2.75
4. 25 Chateney	3.50	2.75
5. 25 Gates or Ivory	3.50	2.75
6. 25 McArthur, Liberty, or Meteor	3.50	2.75
7. 25 Any Variety not mentioned.	3.50	2.75

In order that we might more display the meaning of "welcome" to our meeting, the committee has arranged for a jollification assembly to take place after our regular meeting, when we will follow our escort to a place where there will be good speaking and good others, "come," do your duty, and you will be given a full reward, as special orders have been issued; but before you leave home get permission to stay out after dark just this one time.

OTTO G. KOENIG,
J. J. BENEKE,
F. H. MEINHARDT,
Exhibition Committee.

Regular meeting second Thursday of each month, at 2.00 P.M., at 810 Olive street, 10th Floor, Odd Fellows Hall No. 2.

Members always expected to be present.

The latch string hangs on the outside.

NEW HAVEN CO. HORTICULTURAL SOCIETY

The New Haven Co. Horticultural Society at its regular meeting had as its chief feature a carnation exhibition. A very fine exhibit came from Frank Kimberly, florist of Townsend avenue. The exhibit from Mr. Murray, gardener of the Yale botanical gardens, especially of two very fine new seedlings, was excellent. James Bruce, florist of Kensington street, made a fine exhibit of carnations and roses. A. J. Thompson exhibited a fine collection and also his new pink seedlings. The collection from E. J. Morse, florist of Townsend avenue, was another pretty one. A very fine cinerara came from the Yale botanical gardens. A very fine specimen of asparagus was exhibited by F. Duffy. Frank Kimberly read an interesting paper on carnations, covering his experiences of various kinds, which he finds give best satisfaction.

Charles Kern, assistant superintendent of parks, gave a very interesting talk relating to the earliest appearance of the carnation which was known to the ancient Greeks, about 300 years before Christ.

WASHINGTON FLORISTS' CLUB

An exhibition of carnations will be held on March 7th, and exhibits are requested from all growers who have new or interesting novelties. All exhibits should be sent to the secretary, Peter Bisset, "Twin Oaks," Washington, D. C. prepaid and shipped to reach Washington not later than Tuesday morning, March 7th. At the same meeting new officers will be elected.

PETER BISSET, *Secretary.*

A bill authorizing the appointment of a master builders' examining board in the District of Columiba, and providing for the examination and licensing of persons as master builders and for other purposes, was prepared and forwarded to Congress by the Commissioners of the District, with a request for its passage. Its intent was to insure better building construction and a license fee of $25 was provided for; but unfortunately it covered repair work, as well, and its operation would compel the hiring of a master in all cases where repairs were required, and consequently a protest was entered by the Florists' Club of Washington, and with such success that the commissioners have recommended to Congress that no action be taken on this bill at the present session. As the position taken by the Washington Club will, doubtless, be of interest to the craft generally, we append a copy of their communication, in full.

WASHINGTON, D. C., Feb. 8, 1905.

The Honorable Board of Commissioners of the District of Columbia,

GENTLEMEN: — At a meeting of the Florists' Club of Washington, D. C., held on the 7th inst., the secretary was requested to write to your Honorable Board, and protest in the name of the Florists' Club against the passage of the Master Builders' License bill. If this bill becomes a law it will do great injustice to the florists of the District of Columbia, as they do most of their own repairing, building of greenhouses, setting up of boilers, etc. This they will not be permitted to do if this measure becomes a law. In greenhouse building the florist is better qualified to do his own work than are the master builders, who are advocating this measure, as the work requires a knowledge not possessed by the ordinary builder. And if the florist should build a greenhouse on contract, it would be sure to be built by a horticultural builder from some other city, as there is no such builder in Washington. Should this bill become a law, before such a builder could do any work he would be compelled to secure the master builders' license, and the cost of the same would have to be borne by the florist. It is the earnest desire of the Florists' Club that your Honorable Board shall do your utmost to defeat this measure.

Very respectfully submitted,
PETER BISSET, *Secretary.*

CHICAGO FLORISTS' CLUB

There was a good attendance at the meeting February 23, including a number of ladies. The special attraction was an address by E. G. Routzahn, of the Bureau of Civic Corporation, on "How to make Chicago Beautiful," illustrated by stereopticon views. He cited what others are doing to advance the love of plants, instancing the Cleveland schools, where the children can order flower seeds at 1 cent per packet, are taught plant arrangements, how to care for lawns, flowerbeds, and window boxes, etc., also the good work inaugurated by Mr. Patterson of the National Cash Register Co., and their boys' garden, where the youngsters can work off their surplus energy with a reward for their accomplishment. The billboard nuisance and neglect in our alleyways, with suggestions on improving by growing a few vines, beginning with morning-glories, the substitution of wire fence for board fences,

and window boxes for the slum districts were all touched upon. The florist, he said, should follow up the work of the improvement clubs, and make suggestions, and, above all, show the public the effect of simple planting around his own place.

MASSACHUSETTS HORTICULTURAL SOCIETY

On Saturday, March 4, A. Herrington, Madison, N. J., will deliver an address on "Some Aspects of Hardy Flower Culture," at Horticultural Hall. At the same time there is to be a notable exhibition of orchids, comprising upwards of thirty species, and varieties of dendrobiums in flower, by Peter Murray, gardener for W. P. Winsor, Fairhaven, Mass., also phalænopses and others from N. P. Craig, North Easton.

BUFFALO FLORISTS' CLUB

On Wednesday, February 22d, the Club had a successful meeting in Wm. F. Kasting's hall. The following gentlemen were nominated for the respective offices: —

Pres., L. H. Neubeck; Vice-Pres., C. T. Guenther; Cor. Sec'y, D. B. Long, and W. J. Peake; Financial Sec'y, E. C. Brucker; Treas., Charles H. Keitsch; Executive Committee, all the members in good standing. The election will take place in March. Wm. F. Kasting, Charles H. Keitsch, and Wm. A. Adams were appointed a committee to make arrangements for a little "blow out," and a good time is anticipated. We invite as many out-of-town florists as can join us on this occasion.

There was an excellent show of all the new carnations. Guttman & Weber showed Victory, scoring 87 points. W. J. Palmer & Son, Lancaster, red Lawson, 88 points. R. Witterstaetter, Cincinnati, J. A. Valentine, 87 points; Aristocrat, 94 points; Afterglow, 88 points; F. R. Pierson Co., Tarrytown, Variegated Lawson, 89 points; Daheim, 84 points. Their White Lawson and Enchantress showed up fine. J. Murchie, Sharon, Pa., Fred Burki, 85 points; also a few red seedlings, very good. Patten & Co., Tewksbury, Mass., Mikado, 84 points; undoubtedly would have scored much higher if the flowers had reached here in better shape. Charles Rooney, Jamestown, N. Y., Gladys, 87 points; it is a very good promising commercial white variety. C. W. Ward, Robert Craig, 93 points; Lieut. Peary, a fine commercial white, 89 points; J. D. Thompson Carnation Co., Robert Craig, 91 points; H. Weber & Sons, Oakland, Md., My Maryland, not in first class condition on account of being so long on the road, 87 points. Chicago Carnation Co. sent some White Lawson and Lady Bountiful, but they came too late for judging.

The judges were William Scott, H. J. Wise, and C. T. Guenther. All are well known to the trade, and we know they did justice to every exhibitor.

It is very interesting to the local craft to have these gentlemen respond so liberally as they did to our request for this special privilege of seeing these new varieties, — as Mr. Scott said in his last writing, for the sum of one dime (car fare). In behalf of the Buffalo Florists' Club, thanks are extended to all these gentlemen for their kind consideration in sending these novelties, and we also hope they will benefit by same mutually and commercially.

I also wish to mention that a few of the local growers, especially one private gardener, Mr. Venneman, who grows for George Urban, Jr., made a fine showing of 30 or 35 varieties of all the different types of carnations, demonstrating what some of these private gardeners can do with only a few plants of each kind.

F. G. Lewis, of Lockport, N. Y., also showed some nice Red Lawson, and some very fine Enchantress.

NOTES

The annual banquet of the North Shore Horticultural Society took place at Manchester, Mass., on the evening of February 24.

At the Germantown (Pa.) Horticultural Society on last Monday evening, John T. Morris gave an address on the gardens of Japan, illustrated with lantern slides.

Mr. P. J. Lynch, secretary and treasurer of The Dingee & Conard Co., West Grove, Pa., will deliver a paper on "Some Notes on the Newer Roses," at the meeting of the Florists' Club of Philadelphia, to be held Tuesday evening, March 7, 1905.

On Saturday, February 25, at Horticultural Hall, Boston, J. Woodward Manning opened a general discussion on the subject of flowers. Mr. Manning gave a very interesting talk on the exquisite products of the florists' work, giving in detail the flowers blooming in each month. A. A. Hixon, E. O. Orpet, W. N. Craig, T. D. Hatfield, W. H. Spooner, D. Finlayson, and others participated in the discussion.

CHICAGO JOTTINGS

The Howe & Taylor Mfg. Co. has leased a large section on the floor of the flower growers' market as a salesroom and factory of florists' wire work.

An important deal of much interest was the purchase by J. E. Jensen, formerly foreman at the J. D. Thompson Carnation Co., Joliet, Ill., and J. S. Dekema, from Matson & Kron, 631 W. Foster Ave., their establishment consisting of about 48,000 feet of glass, built less than two years ago. The 6 houses are each 26×260, excepting one house, which is 30 feet wide. The entire plant is devoted to carnations of the best varieties in charge of Mr. Dekema, who was the grower for their predecessors. The site is of considerable area and will allow for future expansion and sufficient space for planting. Messrs. Jensen and Dekema are graduates of Peter Fisher. Mr. Jensen recently returned from a business trip west, visiting Denver, Salt Lake City, Ogden, San Francisco, Seattle, Spokane, and St. Paul, and returned with a fat order book. Everywhere he heard compliments for HORTICULTURE.

Hon. Dennis E. Gibbons of Lake County, Illinois, introduced a bill in the legislature to provide an appropriation of $20,000 to be used in 1905 and $10,000 in 1906 for the use of the agricultural experiments station of the University of Illinois, the appropriation for 1905 to include the bill for greenhouse construction at the above experiment station, and recommending an advisory board of five to be appointed by the Illinois florists to help. The Chicago Florists' Club delegated the following committee to the legislators to support the bill which came up before the appropriation committee of the house on Wednesday, March 1.: W. N. Rudd, P. Foley, Leonard Kill, J. Hartshorne. Other Illnoiis representatives are F. Ammann, Edwardsville, Ill., G. Kuhl, Pekin, Ill., and H. W. Buckbee, Rockport, Ill.

A PRIVATE PLACE BECOMES COMMERCIAL

The greenhouses of Walter P. Winsor, Fairhaven, Mass., were opened to the public from February 22 to February 26, inclusive. It has been Mr. Winsor's practice for several years past to offer this treat to the public, and from 5,000 to 7,000 visitors have annually enjoyed it.

Among the attractive features are, a fine bench of cinerarias, several benches of amaryllises, hyacinths, and other bulbs, arranged with crotons and other foliage plants, and many other things to be found in a well-appointed greenhouse collection. The drawing cards were, the Winsor Pink, raised by Peter Murray, gardener, and which will in due time be marketed by F. R. Pierson Co., and the fine collection of orchids. Five first class certificates of merit, four silver medals, three gold and one bronze medals, granted by the Massachusetts Horticultural Society, testify to the quality of the orchid collection. Mr. Murray also received honorable mention for a seedling fern — Adiantum Murrayanum. In addition, in the potting house may also be seen a long string of first and second premiums won at the annual shows held at New Bedford.

Mr. Winsor has from his youth been an enthusiastic lover of exotic plants, and lovers of horticulture will regret to learn that he is disposing of his valuable collection, and giving up his greenhouses; also, that Mr. Murray, who has, for nearly thirteen years so successfully managed the greenhouses, has abandoned the pursuits of horticulture as an art, for the pursuits of commerce, he having leased the greenhouses from Mr. Winsor, and will grow high-class goods for wholesale market.

THOMAS WHITE.

CATTLEYA SUSANNÆ

From the Report of Committee of the Gardeners' and Florists' Club of Boston

This new hybrid cattleya exhibited by E. O. Orpet of South Lancaster, Mass., is the result of crossing the two-leaved Cattleya Skinneri with C. Warneri, the aim having been to increase the size of blooms in the former and give added flowers to the latter. Your committee believes that this has been accomplished, and for the first time in either Europe or America, there being no knowledge of its having been shown before, hence the recognition given.

In habit the plant is exactly intermediate between the two parents, the bulbs being two-leaved as in Skinneri, and having the peculiar bronzy tint of Warneri on bulbs and leaves. The flower spike is stout and carried well above the leaves, producing at the first flowering five to six flowers per scape. The individual blooms are about double the size of C. Skinneri, but a trifle paler in color, the color being uniform through the petals without any accentuation in the lip, as might have been expected from the use of C. Warneri as a pollen parent.

OBITUARY

Ferdinand Mangold, superintendent of the Gould estate at Irvington, N. Y., died on February 18, aged 77 years. He was a gardener of the old school, a plantsman of highest ability.

Outdoor Art and Craft

Allan Chamberlain has declined renomination as tree warden of Winchester, Mass.

A bunch of web and leaves at the tip of the branch is the winter nest of the brown-tail moth. Cut them off and burn them at once. A fuzzy, yellowish patch on the rough bark, on the sheltered side of a stone or other object is, in all probability, the egg-mass of the gpysy moth. A brushful of creosote will finish it. All so easy, all so simple, if only everyone would do his share.

The exigencies of the moth plague have developed a new industry in the neighborhood of Boston, whereby contracts are taken for the clearing of property from the brown-tail nests by expert tree climbers, equipped with spurs and all the latest machinery for climbing and clipping the nests from the highest trees. The company furnishes all the equipment and also insures the men against accident. The charge is $10 a day for a gang of three men.

News Notes

It is reported that good samples of asbestos have been found in the country west of Lake St. John, Province of Quebec.

The old Clinton market in New York City has again been placed at the disposal of the plant growers for the spring season.

The boiler in the greenhouse of E. A. Brigham, Grafton, Mass., exlpoded on February 18th, doing a damage of between $400 and $500.

The funeral of Farquhar Macrae, whose obituary appeared in our last week's issue, was held on February 24th, at his late home, in Providence, R. I. The house was well filled with relatives and friends, among the latter being numbered a goodly representation from the Florists' and Gardeners' Club of Rhode Island, and the Horticultural Society.

The casket was surrounded with a wealth of floral tokens of esteem and affection, nearly all from floral concerns, in this and other cities, with which Mr. Macrae had been associated in business. Among others was a very large wreath from the Rhode Island Florists' and Gardeners' Club.

The bearers were Alexander Rennie, William E. Chappell, Thomas J. Johnston, and Michael Sweeney. The body was entombed in Swan Point Cemetery, where the new receiving tomb was lavishly decorated with pot-plants by superintendent Timothy McCarthy.

"It is an ill wind that blows nobody good."

The wind, ill or otherwise, blew down a nectarine house on the William Waldorf estate at Newport about a month ago. Now the Lord & Burnham Co. have received the contract to build a new one, — an up to date structure; the old one was not up-to-date. This applies to the structure, and not to the fruit grown there. Many a good nectarine had its being in that little old house.

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Greenhouses Building or Projected

Westville, Conn. — T. C. Benedict, one house.

Chicago. — Jacob Philipp, five houses, each 20 x 150.

Mamaroneck, N. Y. — C. J. Schelling, range of conservatories.

De Haven, Pa. — A. T. Lorch, range of houses for fancy carnations. Three, 150 feet long each; two, 200 feet long each

J. Henry Bartram, Lansdowne, Pa., has awarded the contract for the material for two new rose houses, 35 × 200, to the Lord & Burnham Co. Dennis T. Connor, who secured the order, reports business in this section as excellent and prospects bright.

LIST OF PATENTS

Issued February 14, 1905

782,292. Vegetable or Fruit Slicer. Waldemar Walter and Frank Walter, Philadelphia, Pa.

782,461. Lawn-Hose Support. Henry S. Parker, Elreno, Okla., assignor of one half to James F. Matthews, Elreno, Okla.

782,561. Greenhouse or Other Structure. Edward W. Hitchings, Montclair, N. J.

782,754. Fruit-Picker. George W. Merker, Belleville, Ill.

Issued February 21, 1905

783,182. Means for Heating Hotbeds. Amand De Meyere and Charles De Meyere, Brussels, Belgium.

783,241. Truck for Use in Transplanting Trees. Peter Bisset, Washington, D. C.

783,267. Blast-Controlling Device for Seed-Cleaners. Jonathan Harris, Cleveland, O.

783,324. Pruning-Hook. Ernest D. Snyder, Mercer, Pa.

783,359. Asparagus-Cutter. James O. Bowden, Wilmington, N. C.

783,387. Broadcast Seeder. Luther E. Roby, John L. Jones, and Harvey V. Gibson, Peoria, Ill.

The new British patent law, passed in response to a long-standing and urgent demand for reform, came into full operation on January 1, 1905. It is a matter of considerable importance to American inventors, as for many years past about one fifth of the patents issued by the British office have been to Americans. In 1903 the total number of patents granted by Great Britain was 15,718, of which 3,466 were to Americans.

GLASS-WORKERS' STRIKE IN BELGIUM

(From United States Consul Roosevelt, Brussels, Belgium.)

In February, 1904, manufacturers of glass in the district of Charleroi combined for defense and for the reduction of wages. Conditions were placarded in their respective works May 1, 1904, and became fully operative September 1.

Workers in cold glass (cutters, packers, box makers, and helpers) decided to boycott certain manufacturers, and on May 1, 1904, a partial strike was declared in the window-glass industry, which, except at five works, became complete on September 1. All negotiations toward a settlement of the difficulty have been fruitless. The one insurmountable obstacle to an amicable settlement of the strike and resumption of work on the conditions placarded May 1 now seems to be — at least so it is asserted — the rivalry between the head of the union of workers in hot glass (blowers, flatteners, stretchers, and helpers) and the head of the union of cold-glass workers. The strike affects about 10,000 men.

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WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

Catalogue describes all the above.

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Cyrtomium falcatum and Fortunei,
Davallia stricta and canariensis.
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Doryopteris palmata, geranifolia and nobilis.
Gymnogramma sulphurea, chrysophylla and peruviana.
Lastrea aristata, a. variegata, chrysoloba, opaca.
Lomaria gibba.
Microlepia platyphylla.
Nephrodium molle, m. cristatum and hirtipes.
Nephrolepis exaltata, e. bostoniensis, cordata compacta, davallioides furcans and pectinata.
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Polystichum coriaceum and setosum.
Polypodium aureum.
Platyloma falcata.
Pteris adiantoides, argyræa, densa, cretica, albo lineata, internata, leptophylla, major, magnifica, Mayii, compacta, nemoralis, ouvardi, serrulata, cristata, cristata variegata, voluta, Sieboldi, tremula, Victoriæ, Wimsettii, longifolia, and mixed.

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PITTSBURG MARKET REPORT

As is usual at this season of year, Pittsburg has been enveloped in fog and smoke. The sun made a poor attempt at showing itself on only part of two days. It has been very trying for local growers, and with the exception of bulbous stock, everything is coming in very slow. The market during the past week has remained much the same as previously reported; the supply is still large, and plenty of good stock is obtainable at all the wholesale houses, with the exception of best fancy Beauties and Liberties. General stock of carnations are plentiful, with exception of good whites.

Several shipments of flowers to this city of late have arrived in bad condition; some boxes during the severe cold spell had only, for protection, one layer of paper. The writer on one occasion saw a box of Beauties being opened, and they were frozen so hard that they had to let them remain in the box rof several hours to thaw out. I understand they immediately wired condition to shippers. Year after year we have the same complaint from commission men and retailers who receive large shipments, and especially during holidays from growers not over-scrupulous. The damage done to the trade by this carelessness is incalculable, besides destroying the confidence and friendship which ought to exist amongst the craft.

David D. Howells.

NEWPORT MARKET REPORT

The condition of the market is quiet. The stock is good and there is a fair demand for this season of the year, but Newport is a peculiar place in this respect, and people unacquainted with it would hardly credit the fact that the aggregate sales of the past two months would not much exceed the amount spent in one day for flowers in the summer. For this reason florists are in no wise worried, neither are the commission men and growers in Boston and New York, who know they have Newport to fall back on in the summer. Scarcely a third of the flowers used here in the summer are grown in Newport.

On account of an accurate prediction of a cold and protracted winter, many grape growers are thankful they did not start early, as the prices received in recent years do not seem to have made up for the enormous amount of coal necessary for very early grape forcing. James McLeish, however, has three graperies well under way. One will soon be in flower; even at that he is much later than has usually been the case with him.

CINCINNATI MARKET REPORT

Business for the past week was good. The stores did a good lot of funeral work, this line of trade constituting nearly all the business done, as the weather conditions have remained very bad all through the week, thereby killing the usual transient trade. Bulbous stock is now coming in with more than enough to supply the demand. Roses and carnations remain a little short, there being a good demand for the white sorts.

Carnations - Roses

Genevieve Lord	**Gen. MacArthur**
Lawson	**Perle**
Fair Maid	**Ivory**
Mrs. Patten	**Bride**
Enchantress	**Bridesmaid**
Gen. Gomez	**Golden Gate**
Apollo	**Uncle John**
Morning Glory	**Chatenay**
White Cloud	**American Beauty**
Wolcott	**Kaiserin**
Prosperity	**La Detroit**

We offer rooted cuttings of the above at lowest market rates. All first-class stock; cuttings carefully selected.

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Poinsettias, one year old, $5.00 per 100.

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Am. Beauty, Fan. & Sp.	40 00 to 50 00	40 00 to 50 00	50.00 to 60.00	35 00 to 50.00
" Extra	32 00 to 36 00	25.00 to 35.00	40.00 to 50 00	20.00 to 35.00
" No. 1	15 00 to 25 00	10 00 to 20.00	25 00 to 30 00	12.00 to 20.00
" Lower grades	3 00 to 8 00	4.00 to 8.00	3.00 to 12.50	4.00 to 8.00
Bride & Maid—Fan. & Sp.	10 00 to 12 00	..... to 8.00	12.00 to 15.00	8 00 to 12.00
" " Extra	8 00 to 10.00	..... to 6.00	10 00 to 12.00	6.00 to 8.00
" " No. 1	6 00 to 8.00	..... to 5 00	8.00 to 10.00	4.00 to 5.00
" " Lower gr.	3 00 to 5 00	..... to 4 00	2.00 to 5.00	2.00 to 4.00
Liberty, Fancy & Special	8 00 to 10 00	..... to 8 00	30.00 to 35.00	15.00 to 25.00
" extra	6 00 to 8.00	..... to 6 00	20.00 to 25.00	8.00 to 12.00
" No. 1	4 00 to 6.00	..... to 5 00	12.00 to 5.00	6 00 to 8.90
" Lower grades	2 00 to 4 00	3.00 to 4 00	3.00 to 8.00	2 00 to 4.00
Golden Gate } Best	8 00 to 10 00	..... to 8 00	12 00 to 15 00	6 00 to 8.00
Ivory } Medium	6 00 to 8.00	5.00 to 6.00	8 00 to 10 00	2 00 to 4.00
Chatenay } Culls	1.50 to 3.00	..... to 4.00	3.00 to 5.00	..... to 2.00
CARNATIONS				
Fancy Class	2.00 to 4.00	3.00 to 4 00	4.00 to 5 00	3.00 to 4.00
General Class	2.50 to 3 00	1.50 to 2 50	2.00 to 3.00	2.00 to 3.00
Lower Grades	1.00 to 2 00	..... to 1.00	1.00 to 2.00	1.00 to 2.00
VIOLETS				
Special	.50 to .75	..... to .75	.50 to .75	.50 to .75
General	.30 to .50	..... to .50	.40 to .50	.30 to .50
Single	.25 to .60	..... to .25	.20 to .50	.20 to .25.
ORCHIDS				
Cattleyas	50 00 to 60 00	..... to	50.00 to 60 00	..... to .....
Cypripediums	12 50 to 18 00	..... to	15.00 to	..... to .....
BULBOUS				
Lilies	1 00 to 2.00	..... to	10.00 to 12 50	6.00 to 10.00
Lily of the Valley	2 00 to 3.00	3.00 to 4.00	2 00 to 4.00	2.00 to 3.00
Roman Hyacinths	2 00 to 3.00	2 00 to 3 00	1.00 to 3.00	1.00 to 2.00
Paper White Narcissus	2 00 to 3.00	..... to 3 00	3 00 to 4.00	1.00 to 2.00
Trumpet Narcissus	2 00 to 4 00	2.00 to 3.00	3 00 to 4.00	2.00 to 3 00
Tulips	1.50 to 4 00	..... to 3 00	2.00 to 4 00	2.00 to 3.00
Callas	.75 to 1 50	12 50 to 15.00	8 00 to 10.00	8.00 to 10.00
MISCELLANEOUS				
Mignonette	2.00 to 10.00	3.00 to 5 00	2.00 to 4.00	1.00 to 3.00
Sweet Peas	.50 to 1.50	.50 to .75	.50 to 1.00	.50 to 1.00
Adiantum Cuneatum	.50 to 1.25	..... to	1.00 to	.75 to 1.00
" Croweanum	..... to	..... to	1.50 to	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	10 00 to 18.00	12 50 to 15.00	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	35 00 to 50 00	..... to	50 00 to	50.00 to .....
" " bunches	25 00 to 35 00	..... to	25 00 to 50 00	35 00 to 50 00
" Sprengeri "	25 00 to 35 00	..... to	40.00 to 50.00	35 00 to 50.00
Stevia	..... to	..... to	..... to	..... to .....
Freesia	..... to	..... to	..... to	..... to .....

CHAS. W. McKELLAR

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PHILADELPHIA MARKET REPORT

Beauty and Liberty market past week, healthy and brisk. Stock good, but scarce. There is some outside demand in addition to local requirements. Boston has been calling for good stuff, notwithstanding the fact that fancy Liberties are twelve there to thirty here. Brides and Bridesmaids are in grand shape and plentiful. Prices a shade easier, if anything. Quite a few Golden Gates are coming in and are selling very well. Carnation market in pretty fair shape, last week demand not quite so brisk, but supply shortened up considerably, which prevented any extensive break. The notables for quality recently seem to be Flamingo and Adonis — the latter, however, not in large supply. Mr. Haines of Bethlehem has a good scarlet. S. S. Pennock thinks it will be a winner if it keeps as good as what he has been receiving from its raisers recently. Violets not going much better. Orchids scarce, but enough for demand. Lily of the valley moving in fair shape, but quality at present not quite up to standard. Roman hyacinths shortening up, and not extra quality. Daffodils very plentiful. Tulips going better, especially the choice varieties, like Couronne d'Or, Tournesol yellow, Vermillion Brilliant, and Kaizer Kroon. Other regular lines going fairly well, except callas, which are slow. On gardenias, prices have sagged on account of big receipts. At rates now ruling, this item should come into more general use.

CHICAGO MARKET REPORT

Liberal receipts gave to the market a downward impetus last week, from which it could not wholly recover, although there was considerable change for better by Friday and Saturday. American Beauties, although of inferior quality, are holding to the top prices of the last two weeks, especially in the select grades. The quality is not good, this fact being a contributing factor toward stiffening values. Brides and Bridesmaids, on account of the increased supply, are tending downwards. Quality is very good, and some growers report the season's cut averages 50 to 60 per cent in favor of the select grade. Liberty, Meteor, and Mme. Chatenay are slow, and showing effect of the strong sunlight. Carnations are increasing in supply, with a fair market, and the demand for white is now easily met. On roses, carnations, and violets, values are such as to give satisfaction to street venders generally. Some of the wholesalers called last week's market 25 per cent better than the previous week, and cited sales to prove their contention, while many declared the advance would not be over 10 per cent.

NEW YORK MARKET REPORT

General trade in cut flowers is only fair, and, as supplies are increasing, prices tend downward all along the line. Roses are more plentiful and prices are receding. Carnations are in more than sufficient supply. Violets are selling, but at low figures, the bulk of the stock finding its outlet on the street. Lilac, tulips, daffodils, and miscellaneous flowers are abundant. The stock most easily sold at present is smilax, asparagus, and adiantums.

BOSTON MARKET REPORT

A reaction has set in and the flower market is weakening rapidly, with the prospect of a slump next week when Lent moves in. Growers bringing their flowers to the early markets find it sometimes necessary to carry them home again, and stock is accumulating in refrigerators. The increase in supply applies to all lines.

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FRED EHRET WHOLESALE FLORIST

Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.

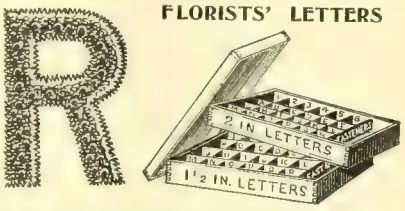
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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 25, 1905.	First Half of Week ending Mar. 4 1905.
ROSES		
Am. Beauty, fan. and sp	40.00 to 60 00	40 00 to 60 00
" extra	25.00 to 40.00	25 00 t 35 00
" No. 1	20 00 to 25 00	15 00 to 25 00
" Lower grades	1.00 to 10.00	1.00 to 10 00
Bride and Maid, fan. and sp	10.00 to 15.00	10 00 to 12 00
" " extra	6.00 to 8.00	6.00 to 8.00
" " No. 1	4 00 to 6 00	4 00 to 5 00
" " Lower gr	2.00 to 4.00	2.00 to 4.00
Liberty, fan. and sp.	25 00 to 50 00	25.00 to 40.00
" extra	10.00 to 20 00	10.00 to 15 00
" No. 1	6.00 to 8.00	6.00 to 8.00
" Lower gr	1.50 to 4.00	3.00 to 4 00
Golden Gate Best	10.00 to 15.00	..... to .....
Ivory Medium	4.00 to 8.00	..... to .....
Chatenay Culls	2.00 to 3.00	..... to .....
CARNATIONS		
Fancy Class	3.00 to 5.00	3.00 to 5.00
General Class	1.50 to 2.50	1.50 to 2.00
Lower Grades	1.00 to 1.25	..... to 1.00
VIOLETS		
Special	.50 to .75	.50 to .75
General	.25 to .50	.25 to .40
Single	.35 to .50	.35 to .50
ORCHIDS		
Cattleyas	20.00 to 50 00	20 to 50
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	5.00 to 8.00	5 00 to 8 00
Lily of the Valley	1.00 to 4.00	1 00 to 4 00
Roman Hyacinths	1.00 to 2.00	1 00 to 2 00
Paper White Narcissus	1.00 to 2 00	1 50 to 2 00
Trumpet Narcissus	2.00 to 3.00	2 00 to 3.00
Tulips	2.00 to 5.00	1 00 to 5 00
Callas	5.00 to 8 00	5.00 to 8.00
MISCELLANEOUS		
Mignonette	2.00 to 6.00	2.00 to 6 00
Sweet Peas	.75 to 1.00	.75 to 1 00
Adiantum Cuneatum	1 00 to 1.25	1.00 to 1.25
" Croweanum	1.25 to 1.50	1.25 to 1 50
" Farleyense	..... to	..... to .....
Smilax	10.00 to 20.00	10 00 to 16 00
Asparagus Plumosus, strings	30 00 to 50 00	30.00 to 50 00
" " bunches	20.00 to 35.00	20 00 to 35 00
" Sprengeri "	20.00 to 35 00	20 00 to 35 00
	..... to	..... to .....
Lilac, per bunch	..... to	..... to .....

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Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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And all kinds of Seasonable Flowers
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Also Dealer in Florists' Supplies and Wire Designs
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Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Feb. 27	BALTIMORE Feb. 21	BUFFALO Feb. 28	PITTSBURG Feb. 25
ROSES				
Am. Beauty, fan. and sp.	45.00 to 50.00	..... to	35.00 to 50.00	50.00 to 65.00
" extra	30.00 to 40.00	40.00 to 50.00	20.00 to 30.00	30.00 to 40.00
" No. 1	12.50 to 25.00	25.00 to 35.00	10.00 to 15.00	15.00 to 25.00
" Lower grades	4.00 to 8.00	6.00 to 15.00	4.00 to 8.00	10.00 to 12.00
Bride and Maid, fan and sp.	10.00 to 12.00	..... to	..... to	15.00 to 18.00
" " extra	..... to 10.00	..... to 10.00	10.00 to 12.00	10.00 to 15.00
" " No. 1	8.00 to 10.00	..... to 8.00	6.00 to 8.00	5.00 to 6.00
" " Lower gr.	4.00 to 6.00	5.00 to 7.00	2.00 to 4.00	4.00 to 5.00
Liberty, fan. and sp.	4.00 to 12.00	..... to	..... to	15.00 to 18.00
" extra	..... to	..... to	10.00 to 15.00	10.00 to 12.00
" No. 1	..... to	..... to	6.00 to 8.00	5.00 to 6.00
" Lower gr.	..... to	..... to	3.00 to 5.00	3.00 to 4.00
Golden Gate } Best	8.00 to 10.00	..... to 10.00	8.00 to 10.00	8.00 to 10.00
Ivory } Medium	6.00 to 8.00	..... to 8.00	5.00 to 7.00	4.00 to 8.00
Chatenay } Culls	4.00 to 6.00	5.00 to 6.00	2.00 to 4.00	8.00 to 10.00
Meteors	..... to	..... to	..... to	8.00 to 12.00
CARNATIONS				
Fancy Class	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	4.00 to 6.00
General Class	1.50 to 2.00	2.00 to 3.00	2.00 to 2.50	3.00 to 4.00
Lower Grades	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.25 to 2.00
VIOLETS				
Special	..... to 1.00	..... to .75	.60 to .75	..... to .....
General	.50 to .75	.50 to .60	.30 to .50	.75 to 1.00
Single	.25 to .35	.40 to .75	.25 to .75	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	50.00 to 60.00	60.00 to 75.00
Cypripediums	..... to	..... to	..... to	15.00 to 25.00
BULBOUS				
Lilies	12.00 to 15.00	10.00 to 12.50	12.50 to 15.00	8.00 to 15.00
Lily of the Valley	..... to 4.00	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Paper White Narcissus	..... to 3.00	2.00 to 3.00	2.00 to 4.00	3.00 to 4.00
Trumpet Narcissus	..... to 3.00	..... to 3.00	2.00 to 4.00	3.00 to 4.00
Tulips	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Callas	..... to 10.00	6.00 to 10.00	8.00 to 10.00	12.00 to 15.00
Freesia	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Sweet Peas	..... to 1.00	..... to 1.00	.40 to .75	1.00 to 1.25
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.75 to 1.00	..... to 1.00
" Croweanum	..... to	..... to	..... to 1.50	..... to .....
" Farleyense	..... to	..... to	10.00 to 12.00	..... to .....
Smilax	10.00 to 15.00	15.00 to 25.00	..... to 15.00	12.00 to 18.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	40.00 to 60.00	30.00 to 50.00
" " bunches	..... to	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00
" Sprengeri "	..... to 35.00	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00
.....	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	..... to	..... to .....

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Strong stock plants from bench
$10.00 per 100

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$3.50 per hundred

Select Strains of Asters, Petunias, Sweet Peas, Nasturtiums, Stocks, and all Flower and Vegetable Seeds.....
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Schlegel & Fottler Co.
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Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

April 1st is the date of the Parcels Post convention between the United States and Great Britain.

PHILADELPHIA, Feb. 27. The mail seed trade, taking the country over, is reported to be 25 to 50 per cent. behind last year for the season. The bitter winter is having its effect. "The rush" will be a terror when it does come. We hear of a local house that had an order for eight thousand pounds of sweet peas the other day for Chicago. Looks as if those supply houses were at least *expecting* to do some business.

SEEDS IN SOUTH AMERICA

As compared with the average seed catalogues, as we know them, a South American seed catalogue, which I happen to have before me, seems to be a not so very large one. Nevertheless, considerable "getting off" of seeds is done in South America by European firms, and sold by the local seedsmen. Speaking of the South American seed trade in general, it must increase rapidly, as these states are coming more into the sphere of higher civilization with all its refined wants and necessaries, such as flowers and vegetables, and this at a rate which will increase rapidly, as the northern countries are getting filled up by settlers. Another reason is the low price of the tropical and subtropical products — coffee, for instance, — since the agricultural development of Africa and tropical regions in other continents. Again, the cities, formerly the abode of a feudal class in close connection with extensive plantation interests, are being transformed rapidly into manufacturing communities with a modern urban civilization and taste. These causes hasten the transformation of tropical plantations around the populous towns and cities into modern vegetable and fruit-growing farms, and our seed merchants will do well to give their attention to this growing market.

Although northern-grown seeds will produce average good plants, flowers, and fruit, even in the high temperatures of the subtropics and adjoining countries, it is a fact that these will not produce seeds again, which, on their part, will produce plants of any quality. The degeneration seems to be so rapid as to allow not even the use of the first seed crop matured in these climates. Some European firms have taken notice of these facts: T. C. Schmidt in Erfurt, Germany, for instance, is putting up special seed-boxes for tropical uses, grown and warranted as to good keeping and reasonably sure germination. And I understand that some English and French firms are doing the same.

GERHARD BLEICKEN.

CATALOGUES RECEIVED

Archias' Seed Store, Sedalia, Mo. "Garden, Farm, and Poultry Annual" with wholesale prices. Full of illustrations. Colored cover.

J. G. Harrison & Sons, Berlin, Md. Eighteenth annual spring catalogue of strawberries and fruit trees. Looks like a business getter.

Forest Nursery & Seed Co., Irving College, Tenn. Wholesale trade lists of ornamental deciduous and evergreen tree and shrub seeds and collected seedlings.

Charles Black, Hightstown, N. J. Wholesale catalogue of fruit and ornamental trees and plants. Includes the Ward Blackberry, "A New Jersey Wonder."

Nathan Smith & Son, Adrian, Mich. Descriptive catalogue of the latest novelties in chrysanthemums, carnations, cannas, geraniums, begonias, and hardy perennials. A valuable pamphlet that every florist should send for.

Thomas Meehan & Sons, Inc., Germantown, Philadelphia, Pa. "Hardy Plants Worth Having." A book, more than a catalogue. Handsomely illustrated and full of interest for everyone who appreciates the hardy garden.

Sander & Sons, St. Albans, Eng. List of hybrid cattleyas, lælias, and lælio-cattleyas. About two hundred and fifty registered crosses. These to be followed by later offers from some thirty houses of hybrids which are constantly coming into flower.

BUFFALO MARKET REPORT

The market in cut flowers has been fair. Roses are getting plentiful enough to supply all demands; so are carnations and violets. Bulbous stock, as always, enough for everybody.

Recent callers in Buffalo were W. Hageman of New York, Robert Fulton, of Henry & Lee, New York, Mr. Scott, of Vaughan's Seed Store, Chicago, and Charles Loechner, of Suzuki & Iida.

BUSINESS CHANGES

W. J. Good is about to start a bulb-farm at Seattle, Wash.

N. R. Swan has opened a retail flower store at Lima, O.

The Cleveland Floral Company of Cleveland, O., has gone into receivers' hands.

The California Carnation Company, Loomis, Cal., has been sold to Johnson & Taylor.

F. E. Keyes succeeds to the business of his father, the late C. A. Keyes, at Worcester, Mass.

Leifer Bros Co., has been incorporated as seed and implement dealers at Little Rock, Ark.

Sigmund Geller, dealer in florists' supplies, 108 W. 28th street, New York, has made an assignment.

Keene & Foulk of Flushing, N. Y., have dissolved partnership. The Bloodgood Nurseries will be continued by Mr. Keene.

CHICAGO TRADE TOPICS

The American Peony Society will hold an exhibition at Chicago, about June 15, 1905. J. B. Deamud was selected to superintend the show. Meeting place has not yet been decided upon.

Daily consignments of gardenias are now offered on the Chicago market. Orange blossoms can be secured on two days' notice at McKellar's and E. F. Winterson Co.

LOUISVILLE MARKET REPORT

Business conditions the past week were more encouraging. The supply of and demand for carnations and roses is satisfactory. Violets have been called for very heavily.

The carnation and rose show, to be held in connection with the next regular meeting of the Kentucky Society of Florists, will be held March 7th, at Nanz & Neuner's store.

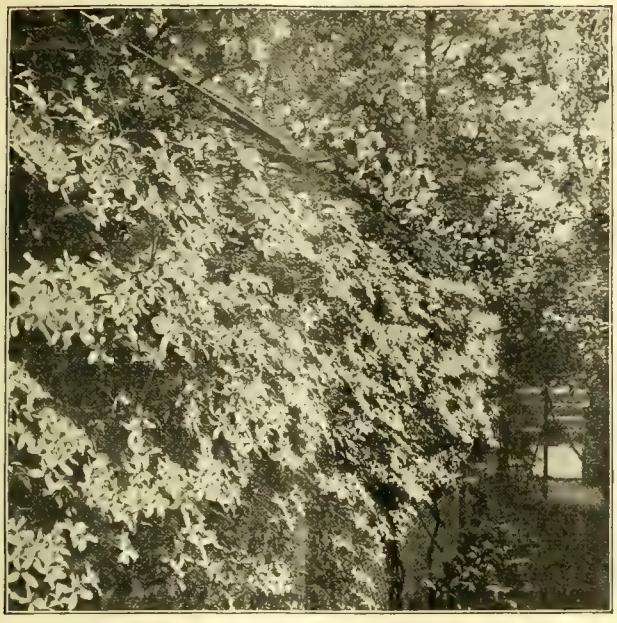
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THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.



CLEMATIS MONTANA GRANDIFLORA

Clematis Montana Grandiflora

A variety of Clematis which, when better known, is destined to become as popular as Clematis Paniculata, its main value being in the fact that it flowers in advance of all other hardy climbers, frequently beginning to expand its flowers as early as the last week in April, continuing well through May. These flowers are from 1 1-2 to 2 inches in diameter and of a pure white color, and are produced in such masses as to completely hide the plant, which is of remarkably strong vigorous growth and insect and disease proof.

Stock limited. Strong two year old plants

35c. each; $3.50 per dozen

Henry A. Dreer

714 Chestnut Street Philadelphia, Pa.

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Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

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Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
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All the best varieties
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A. L. Young & Co., New York.
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Jos S. Fenrich, New York
Frank Millang, Flower Growers' Market, 55–57 W. 26th St., New York.
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Julius Lang, New York.
W H. Gunther, New York.
Chas. Smith, New York.
Bonnot Bros., New York.
Jas. A. Hammond, New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, Philadelphia, Pa.
W. J. Baker, Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia.
S. S Pennock, The Wholesale Florist of Philadelphia
Fred Ehret, 1403 Fairmount Ave., Philadelphia. Established 1890.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa
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NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST



FOR SALE BY SEEDSMEN
24 sheets, 75c.; 144 sheets, $3.50; 288 sheets, $6.50
(Only 2¼ c. each)

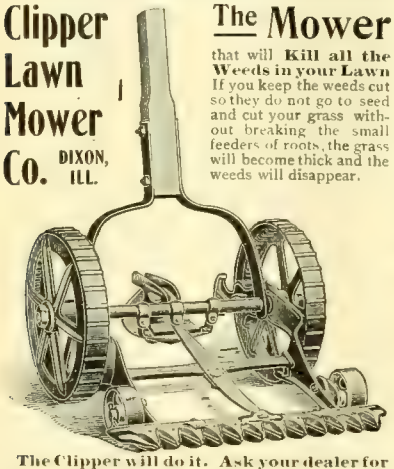
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LOUISVILLE, KY.

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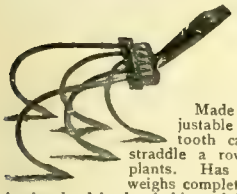
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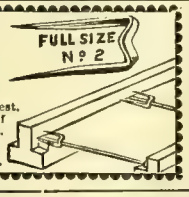
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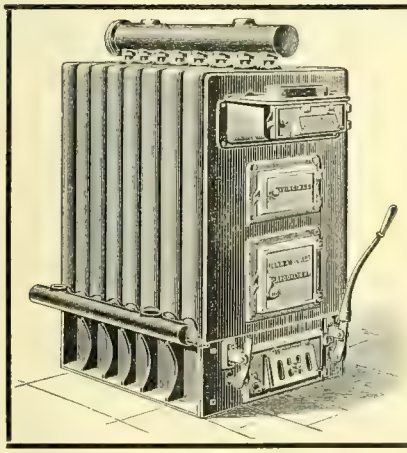
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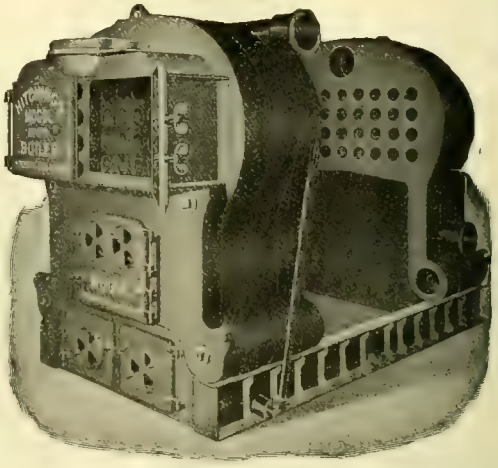
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AGRICULTURAL

Vol. I MARCH 11, 1905 No. 15



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HORTICULTURE

VOL. I | MARCH 11, 1905 | NO. 15

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, EDITOR AND MANAGER

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NEXT WEEK'S NUMBER will contain valuable contributions by James Robertson on Dahlias; Gerhard Bleicken on South American Horticulture; Robert Cameron on Lachenalias, and David D. Howells on Cineraria stellata as a florists' flower.

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Commonly known as "Devil's Tongue." This is one of the most remarkable plants in the vegetable kingdom. It is a native of Cochin China, where it was discovered by M. Riviere, in whose honor it is named. It is a member of the aroid family — a family in which are found so many curious and interesting forms of plant life.

The bulb-like tuber is large, — so large, in fact, that the supply of food it contains is sufficient to produce a wonderful flower without any artificial application of plant food. The illustration shows a tuber growing in a saucer, in the East India house at the Missouri Botanical Garden. Flowering the plant in this manner is certainly novel and elicits much comment among visitors. The so-called flower is not unlike a calla, though much larger. The spathe is deep red or maroon, with a long projecting spadix. I have never seen it used in quantity as a decorative plant, but it should prove valuable when planted for subtropical effect. The finely cut decompound leaves that stand umbrella-like present a striking appearance when used with other plants. The petiole is dark colored, lightly mottled with red. The leaves are deep green, and from three to four feet in diameter.

It is advisable to start the tubers in the greenhouse toward the latter part of March. A rich soil is necessary, and when growing it requires an abundance of water. A slight protection from direct sunlight is beneficial. In this locality the tubers are lifted after frost and stored in a cool-house — underneath a bench is an excellent place — with a temperature of about 50 degrees. Farther north it is necessary to lift and pot the plants before frost and ripen off in the house. Propagation is by offsets and by seed.

F. K. Balthis

Grapes under Glass at Whitinsville, Mass.

Two recent articles in HORTICULTURE on grape-vines grown on borders, all inside, are very interesting to gardeners who grow grapes that way. Calling lately at Mr. George M. Whitin's establishment, I found Mr. McWilliam busy getting his grapery borders ready for starting the growth for this season. There are two houses here for grapes, and the borders, made twenty years ago, are all inside, two and a half feet in depth, on concrete bottoms, with ample drainage to take all surplus water away. The vines were started from eyes, and in May next will be twenty years planted. These are the same vines that, a few years later, produced the grapes that took many prizes, and the only gold medal ever given for grapes in Boston, and are now each year giving fine crops. Mr. McWilliam has never used any cow manure in the borders, as his method of fertilizing, he thinks, is all right without it.

After pruning and cleaning the canes, all the old top-soil is very carefully loosened, so as not to break off any of the fine roots which are near the surface. This is all taken away, and a new compost is put on over the fine roots, to about two and a half inches. After the fruit is thinned, a mulch of fine stable manure is put on, which is about all the borders get, but in all the waterings some fertilizer is mixed in the tank. The compost used is rich loam from a heap that has been used for roses, the sod all rotted, mixed with bone of several grades of fineness, and wood ashes.

Some few years ago Mr. McWilliam could see that the growth on the vines showed a lack of vigor. After studying and trying to think what could be lacking in the feeding, he concluded that the lime formerly used in the making of the borders had lost its virtue, and so at the next year's top-dressing a barrel of fresh lime was used in each house, water enough only being used to powder the lime, which was mixed with half of the compost, and the same amount of lime is now used each year. This is different from old-time methods in grape-growing, but as the vines are now in full vigor and bear each year full crops of excellent fruit, both in size of bunch and berries, it shows that lime (fresh) is a great factor for producing gratifying results. This is not surprising, as most hardy-fruit growers know that trees grown on a limestone soil are always more healthy and keep in vigor longer than those where no lime is in the soil; likewise the fruit is generally finer also.

About December 1st the bunches left on the vines are preserved in the fruit-room. Enough of the shoot is left with the bunch on, so that the lower end

is let down into a bottle of water, and where the top has been cut off the cut is sealed with grafting-wax, which prevents any evaporation, and the berries keep fresh and plump till all are used. The sealing of the end of the shoot is Mr. McWilliam's own idea, and is a good one. At this date, February 15th, I saw many fine bunches preserved this way, and a sample of some proved they had lost none of their flavor. The varieties grown here are as follows:

Early house: Black Hamburg, Maddersfield Court, Mrs. Pierce, Gros Maroc, Diamond Jubilee; late house: Muscat of Alexandria, three varieties; Alicante, Lady Downs, Gros Colman, Gros Guillaume, Mrs. Pearson, Appley Towers, Lady Hutt.

Mr. McWilliam does not think much of Gros Maroc for an early sort, and will inarch some other variety on the vine. Lady Hutt, he thinks, is one of the finest white late grapes. Appley Towers, black, and Lady Hutt were raised from the same seed pod.

This proves that the finest grapes can be produced from vines grown on inside borders if, besides the proper experience, all the other essentials are at command. It should be stated that half the compost, with no lime, is put on over the first half at the annual top-dressing.

Wm Swan

Whitinsville, Mass.

Ferns for Every-day Use

Continued from last week's issue.

A Belangerii or Veitchianum from Borneo and Java is a plant of very elegant habit, and is quite popular in Europe. Its plume-like fronds, finely and regularly divided, are from 1 foot to 1½ feet long and narrow, of a grayish-green color.

A diversifolium or dimorphum from Norfolk Island is a good plant, with fronds two to three feet long and very broad. They are of two different kinds, all bipinnate. The fertile ones have the divisions narrow, and in the barren ones they are larger and bluntly toothed. A Mayii is an elegant plant, in outlines much resembling A. bulbifera, but of a much stronger growth. The stalk is as long as the leafy part, the pinnæ all the same length and deeply cut in narrow divisions. These divisions are dentated, especially near the base, where they are larger. The top of the fronds and pinnæ are blunt.

Another section, which our common maidenhair spleenwort belongs to, is composed of dwarf plants that grow on rocks, old walls, or tree trunks.

A. resiliens and A. monanthemum, both from Jamaica, are much related to our A. trichomanes, of a more robust nature. The first has the pinnæ nearly round; the second has them oblong, and grows a young plant at the base of the frond. Both have the stalk black and wiry; both make bushy plants.

A. formosum from Jamaica has a black, wiry stalk, like the preceding, and grows in bunches. The fronds, about one foot long, and clothed with pinnæ, set close together, deep and irregularly dentated at the upper edge, and of a light-green color.

A. bisectum from West Indies resembles the preceding in habit and growth. The upper divisions of the two- or three-inch dentated pinnæ are long and narrow.

A. cicutarium from West Indies is of erect growth, the fronds about one and a half feet long, with a black stalk, edged with a narrow paper-like wing appendage. The leafy part is long, spear-shaped, and two and three times divided in narrow, crowded sections, overlapping each other. We received from Jamaica a form pinnato-partita, which is dwarfed, has the pinnæ shorter and a shorter stalk. It is a compact, very nice plant.

The Aspleniums with forked spore masses are of thick, succulent texture, and are among the big-growing species. They have the fronds only once divided, the divisions more or less deep-blunt-dentated or simply undulated. Some of them grow bulbils along the stalk. A. celtidifolia from Jamaica, A. compressa from St. Helena, A. decussatum from Polynesia, and A. marginatum from West Indies and Central America are some of those that belong to that section. They all are heavy growers, the last one with fronds attaining as much as six feet long.

In another section, with fronds only once divided and of heavy texture, there are some very hardy species that grow sometimes bulbils at the end of the fronds.

A. abscissum from West Indies and Central America has fronds about one foot long, on a six-inch stalk, and the division ovate, two-inches long, regularly dentated. A. arboreum from Jamaica grows a bushy head of fronds about 1½ feet long, clothed with spear-shaped pinnæ, sharply dentated, with a little ear-like division at the base.

A. obtusatum from New Zealand has leaflets fan-shaped and deeply toothed. The frond is about one foot long, and is terminated by large pinnæ the same size as the lateral ones. There are a few forms—A. o. lucidum is the best, the fronds being of a graceful habit, about two feet long, with pinnæ six inches long, tapering to a point, deeply toothed and of a shiny-green color.

A. serra from West Indies and Central America, has fronds over two feet long and nearly one foot broad, of an arching nature. The pinnæ are long, not large, spear-head shaped, sharply toothed, and the spore masses are parallel with the midribs.

A. Shepperdii from Central America, is a plant well furnished, with fronds over one foot long, light, glossy green, the pinnæ about four inches broad and roundly dentated.

Diplazium is a section nearly all the species of which are evergreen, some with luxuriant growth, and can be used with good advantage.

A. Franconis, A. gracilescens, A. grandifolia, and A. radicans from Central America, A. latifolia, A. maximum, and A. polypodioides from India and Himalaya, have all fronds from three to five feet long, nicely divided and well furnished.

Athyriums are more deciduous, but nevertheless, in their growing period, there are some imposing plants among them.

A. Achillæfolium, from Mexico, A. aspidifolia from South Africa, A. decurtatum from Brazil, A. umbrosum from Himalaya, and A. Woodwardioides, from the Philippines, grow fronds from two to three feet long, broad, and are noble plants when well cultivated. There are over 350 species of Asplenium known. Among them are many nice and useful plants not mentioned in this short list. Some of them can only be seen in botanical, or some private collections. The time is not here yet, but soon will come, when these beautiful plants will be asked for, not only by a few fern-lovers, but by the general public. I did not mention, either, the hardy Asplenums and Athyriums, with their numerous forms. We shall find them later in looking over the hardy fernery.

A. S. Hitchcock

British Horticulture

An English Carnationist

Mr. A. F. Dutton, who has taken a leading part in popularizing the American carnation for market work, is an enterprising young florist on the right side of thirty. His enterprise has been rewarded, for he is now able to take a larger nursery in Buckinghamshire. Here he has two houses, 54 by 200 feet, filled with American tree carnations. These are grown on eight benches in each house, and the chief varieties included are Mrs. T. W. Lawson, Enchantress, Fair Maid, Harry Fenn, Floriana, Governor Roosevelt, etc. He is now trying, among others, Mrs. Theodore Roosevelt, Flamingo, Harlowarden, and Lady Bountiful. Other kinds have been tried and found unsuitable. Mr. Dutton secures blooms all the year round. Those with long stems are sent to the Covent Garden market in batches of 2½ dozen. The average supply is 50 dozen a day, while in June and July the total works out at 600 dozen blooms a week. He finds the demand for good samples increasing.

Mr. Dutton's Methods

Mr. Dutton finds that Enchantress holds a high place in public favor as regards color and size, but for tint alone Fair Maid takes the first place. His method of culture is to propagate cuttings from January to April, in a cool greenhouse. The cuttings are inserted in 48's or 32's, in fresh loam, with one third sand. The plants are shaded until they are rooted, and potted into 60's before the roots get entangled. They are shaded again the first week, and afterwards given plenty of light and ventilation. They are stopped once in the 60 pots, and re-potted before becoming pot-bound. As to disbudding, all except the crown-bud are removed, and any side-shoots, until the length of stem required is procured. This experience has shown him that it is the individual flower, not the stem, that takes vitality from the plants. The houses are kept clean and healthy, and attacks of green-fly averted by judicious fumigation. The many prizes secured at the London and provincial shows are proofs that Mr. Dutton's methods produce good results.

Carpet-Bedding as an Educator

There is a tendency among the superintendents of the London parks and open spaces to discard the stereotyped forms of carpet-bedding, and to adopt some novel designs. Recently I interviewed Mr. W. Waller, who is in charge of a South London recreation ground, and an enthusiast in this branch of horticulture. His great aim is to make the beds topical delineators of historical events. When the excitement on this side of the Channel was highest over the chances of Sir Thomas Lipton "lifting" the American cup, the racing-flag of the owner of *Shamrock* was outlined on the lawn. In the South African war period, Baden Powell's scouts' flags were presented in carpet-bedding, and in the Coronation year the King's crown and flags. Mr. Waller's last success was the design of the Japanese flag. In this work the sun was composed of Alternanthera versicolor, and the rays of A. amœna. The space between was filled with antennarias, surrounded by a deep band of yellow spergulas, the latter forming a framework for the picture. In the Union-Jack design the tints were provided by iresines, antennarias, and lobelias. "I always think that a design illustrating an event of the day is better than a geometrical one. That is, in fact, what I aim at. There is too great a similarity in mere carpet-bedding, representing only carpet, lace, or hearth-rug, to please the public."

Exit the Potato Boom

American readers were no doubt made acquainted with the remarkable "record" prices in new seed potatoes prevalent some months ago. One variety was sold at three times its weight in gold. These high prices stimulated a spirit of speculation, with the result that numerous new varieties have been launched on the market, and the business was completely overdone. The inevitable "slump" has taken place, and it is now possible to buy the very best and latest kinds at a low figure. Trade has reached a more normal channel. There were about 150 new varieties shown at the National Potato Society's exhibition at the Crystal Palace last autumn. A keen competition is existing between the rival claimants for supremacy. The American introductions are also being brought to the front, including Vermont Gold Coin, Carman, and Uncle Sam. Mr. H. J. Jones, a potato specialist, writing of the last named, states, "I can recommend this as one of the best potatoes I know. It is an enormous cropper, healthy grower, resists disease, and when cooked is a fine white, floury ball." Mr. Jones is offering prizes for this variety, in an exhibition he is arranging at his nursery at Lewisham.

Trade at Covent Garden

The flower trade at Covent Garden opened badly in the New Year, owing to the severe frosts in South France. Supplies were short and prices prohibitive. Trade has now settled down to usual prices, steadier supplies being available. The season has now opened in the Scilly Islands, where tons of bloom from the bulb farms are being sent to London. The Guernsey supplies have also commenced, and as the weather has proved favorable some heavy consignments are anticipated. The chrysanthemum season has just concluded, and this has been characterized by heavy supplies and moderate prices. An increasing attention is being given to this popular autumn flower by the market growers.

W. H. Adsett.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

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Telephone, Oxford, 292 BOSTON, MASS.

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

We are sorry to see the U. S. Senate voting to exclude flowers from the Senate Chamber. It looks rather suspicious in that no reason for this harsh rule is given. Can it be jealousy on the part of the members, one of the other, or jealousy of the flowers themselves?

Fortunate for that revenue collector who attempted to assess import duty on shamrock seeds from Ireland, that he lived in Philadelphia and not in Boston. How Faneuil Hall would have rocked! Glad to find that the Board of Appraisers knew their business, and promptly reversed the ruling. Hire another band for next Friday, and never mind the expense!

Judging from the columns of our English contemporaries, the recent "potato boom" in Great Britain has had one good result in calling attention to the need of improvement in the method of preparing and placing cooked potatoes before the public. In this country we can heartily sympathize with our cousins across the water. The hunks of yellow soap, handed out as potatoes in the average restaurant, are a serious handicap to the prestige of the humble tuber which, properly served, has no rival as a palatable and useful food.

It must be apparent to all that rose development on certain lines has about reached its limit. The questions of American Beauty, Bride and Liberty culture have become threadbare, and outside of an occasional isolated instance of increased vigor and finer finish, the entire gamut has been played. The time is now ripe for the opening up of new and unexplored avenues for the rosarian's best thought and enterprise. This must be done if the rose is to retain its time-honored position in the floral kingdom.

Unless all signs fail, the approaching meeting and exhibition at Boston in the interests of the rose will stimulate increased attention to the Queen of Flowers, and from a standpoint that has thus far been much neglected in this country. There are lines hitherto almost untouched on which the florist may work with a certainty of future advantage. The public can be depended upon to respond to anything calculated to bring the rose nearer to them — not as the pampered blossom from the hot-house, but as the growing plant, blooming in the garden or the window, or garlanding the porch. On these lines rather than that of the long-sought "Yellow Mermet," which would be a short-lived sensation at best, lies the greatest interest and profit for the florist of the near future.

The impression of the florists' business commonly current with the public is that is is an exceedingly remunerative employment. This idea is due largely, no doubt, to the style which a few of the "Tiffanys" of the business put on, and the exaggerated tales that are told into the receptive ears of trusting newspaper reporters. The most remarkable feature of the public's attitude, however, is its reluctance to admit that the flower dealer has any right to his profits. Should he be smart enough to get rich, he becomes a target for comment not unlike that made on the Standard Oil, the Beef Trust, and similar examples of heartless voracity. The buying public apparently regard the florists' wares as something that is "growin' while you're sleepin'," and consequently inexpensive of production, and so find it hard to concede to the flower-grower comforts and profits comparable to those gained in other occupations.

The season is now with us when choice flowers of every hue are brought to the city markets in such unweildy over-abundance that the sight of them seems of no interest to the public, and a stand of American Beauty roses, carnations like peonies, gardenias, daffodils, and violets of high degree, makes little more impression than would a pile of bricks, a peanut stand, or any other familiar street-corner object. A few years ago, when such material as is now becoming so common, was an impossibility, or available only for the very wealthy, much was said in advocacy of cheaper flowers and the desirability of bringing them within the reach of all. Now that this condition has been attained, we may well inquire whether it is well that it is so. In so far as the presence of flowers may serve to soften the sordid harshness and the incessant grind of business life, their abundance may be regarded as a public good, even if the grower has to go hungry; but if by reason of their commonness the charm no longer works, and "familiarity breeds contempt," even in the rabble, then are we confronted with a phase of flower production not pleasant to contemplate. How to popularize cut flowers without degrading them, is a problem of paramount importance to the flower-growing fraternity.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Your issue for March 4th is to hand, and I congratulate you on the excellence of its contents, and attractive "make-up." I trust that your enterprise will meet with its proper reward. — W. H. A.

MR. WILLIAM J. STEWART,
Editor HORTICULTURE.

Dear Sir: — Let me take this opportunity to say that I find HORTICULTURE a live and interesting magazine, and I wish you much success.

Very truly yours,
F. A. WAUGH.

Mass. Agri. Coll., Amherst, Mass.

After Adjournment

The preference given to Adiantum Croweanum as a cut frond for florists' use, and the extra price realized for that variety wherever offered, should make W. F. Kasting's offer in last week's issue of HORTICULTURE an interesting item for all who grow adiantums for cut fronds. We learn from Mr. Kasting that the stock offered is going rapidly.

After seeing the illustration of Miltonia vexillaria in the February 9th issue of the *Journal of Horticulture*, we feel like hiding away in humiliation, for never have we seen anything in this country approaching the specimen illustrated. A group of Primula obconica, however, further on in the same issue, restores our nerve. Our Boston gardeners can give them lessons in obconica growing, if the illustration depicts their best.

The New York *Herald*, Boston *Advertiser*, and other highly dignified journals devote valuable space and pay for "special dispatches" from California chronicling the notable exploit of a Californian who has "after trying for six years," succeeded in producing a green carnation. Very naturally, the great man "refuses to explain how he did it," and since the poor carnation is not able to tell, it seems we must try to worry along as best we can without learning the great mystery.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

The House of Representatives has turned down the mountain laurel as a proposed state floral emblem The vote thereon was 65 to 60.

The appropriations bill providing for the needs of Amherst agricultural college has been unanimously passed by the Massachusetts legislature, the objections thereto by market gardeners and florists having been withdrawn.

Leonard of Ward 23 undertook to have a little fun with Keefe of Fall River on the question of making the mountain laurel the floral emblem of the commonwealth, asking him if he would give the house a little information concerning the flower, and especially its botanical name. Keefe retorted that he would not undertake to give Boston members any such information, when they could go out in "their beautiful public gardens, maintained at such expense by the city of Boston," and obtain it. — *Boston Advertiser.*

CONCERNING YOUNG GARDENERS

"Accordin' to a theory of my owd grandfeyther, who had a nasty habit o' continually puttin' it inter practis, whenever you meet a lad you should always hit 'im, 'cos, if he ain't in mischief at that partiklar moment, he's sure to be afore very long. Of course, this is puttin' it very strong, but I've 'ad lads under me as no mortal 'uman bein' could 'elp hittin', so aggrawating were they. Companionship is sweet to lads, and to put one of 'em to work by hisself is about the greatest punishment you could inflict on 'im, but it's one o' the ways o' tellin' wot he's made of. If he tackles th' job, spite of th' loneliness, and gets it done, you may 'ave 'opes of him; but if he is continually dodgin' off to 'ave a drink o' water, see wot time it is, or fetch another lad to 'elp 'im to do somethin' he could very well do hisself, you may depend that he wants a bit o' shapin'.

"In conclusion, I may say that if anybody interviewed me as to the advisability o' puttin' a lad to gardenin', I should be inclined to give th' same counsel as 'Punch' did to them about to marry — 'Don't' — 'cos I ain't seen gardeners come and go wi'out knowin' somethin' of th' ups and downs of a gardener's life, to say nowt o' th' worries and poor pay; but if yer want to make a gardener o' your lad, be quite sure fust as he's got a taste for it. If he has, theer's a chance on him gettin' on; but, if not, it's like tryin' to fit a square peg inter a round hole, and it's th' misfits wot is th' failures in th' gardenin' world. Finally, let 'im begin by learnin' 'ow to work first. He can fill hisself as chockful o' sience as he likes arterwards, but remember as you can't get much out of a garden unless you know 'ow to swing a spade. It's fashionable now to call lads as is learnin' gardenin' students. Call 'em wot you like, but for goodness sake don't pretend to teach 'em gardenin by lettin' 'em look on while somebody' else does th' work. — OLD JIM, in *Journal of Horticulture and Cottage Gardener*, London.

A NEWPORT SENSATION

An attachment has been placed on the property of Mrs. Mary F. Jacobs, a wealthy summer resident of Newport, as the beginning of a suit brought by James T. Donovan, an assistant gardener, to recover damages in the amount of ten thousand dollars for injuries received by him in falling from a tree on the premises. The suit is quite a novelty, distinct from the usual novelties of the seedsmen's catalogues ordinarily claiming the attention of gardeners at this time of the year. This fact, together with a certain amount of mystery attached to it, makes it a topic bordering on the sensational at present. It appears to some persons that John ought to have ferreted out the treachery of the tree or any part of it while on his way up its dizzy heights, and not have waited until his perilous ascension had been completed and an equally (as events have sadly proved) perilous descent entered upon. Others again claim that some one else and not John ought to have been reasonably sure that this particular tree was a fit object for John to climb. However, on this occasion it was John Donovan that was hurt, and not the tree; but likely the tree had been hurt some time, and therefore, the tree having been hurt at one time, was at least a contributory cause of a man's being hurt at this time. Mrs. Jacobs will probably be the next to get hurt, $10,000 or less.

PERSONAL

Everett Fillow of Westport, Conn., has gone on a two-months' visit to Florida.

Visitors in Philadelphia: B. Schoenhut Buffalo; W. A. Prosser and H. A. Bunyard, New York, on the way home after a successful business trip.

Mr. J. N. May sailed on a voyage to southern climes on the steamer *Apache* on March 7. His health is improving, and it is hoped that the trip will complete his recovery. In his illness the greenhouses at Summit, N. J., and the business, have been under the direction of his son, Harry O. May, the results of whose management throughout the past winter have been exceedingly creditable.

Our Pittsburg correspondent thinks that city can give Chicago cards and spades in politics, for, while it is true they carnationed Peter Reinberg into an aldermanic job, the Pittsburg florists have just elected John Bader to Councils, without the aid of carnations or booze — but it is not known how much John has promised the residents of Dutchtown in the fall as material for kraut.

Louis Gudinchet, twenty-six years old, a French landscape gardener, and who came here from abroad recently to pursue a course of study in American horticultural schools, attempted suicide February 25th in his room at the Ivy Leaf Hotel, Second avenue and Thirty-fourth street, New York, by shooting himself. One shot was fired, the bullet entering the abdomen. Gudinchet was hurried to Bellevue Hospital and immediately operated upon. The bullet was removed, and the man's condition was pronounced critical.

NEWPORT PERSONALS

George A. Weaver has returned much improved in health, after a month's sojourn in the South.

V. A. Vanicek has returned from his European trip, taken for the two-fold purpose of pleasure and purchase.

John Marshall is cutting some elegant Enchantress. He contemplates greatly increasing his planting of carnations next year, and as he is not the only one, it is safe to say that a great many will have to be bought from out-of-town growers, as there is not in Newport a single grower of carnation plants for the market.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY

Two displays of orchids were made at Horticultural Hall on Saturday, March 4, one being a magnificent collection of dendrobiums, exhibited by Peter Murray of the W. P. Winsor estate in Fairhaven, and the other of phalænopsis and other varieties from the F. L. Ames estate in North Easton (W. N. Craig, gardener). The dendrobium collection included forty plants, of twenty-five different varieties, all showing splendid bloom, the result of superior cultivation. Of the D. nobile, there were no less than thirteen varieties with well differentiated colorings and markings. The varieties of D. nobile shown were Oakwood, 'Burfurdensis, virginalis, Dominianum, Ballianum, Sanderianum, Manheimeanum, Victoria Regina, Sanderæ, albiflora, Dominii, Cooksonii, and nobilis. In addition to these there were several beautiful hybrid varieties of dendrobium, among them being Schneiderianum, Cybele, Cassiope, Ainsworthii, crassinoidæ, Rolfæ, Venus, and chrysodiscus.

The plants from the Ames estate were remarkable for their profusion of bloom, and being among the most attractive varieties of orchids, made a beautiful exhibit. There were five plants of the delicate pink P. Schilleriana, probably the finest specimens ever seen in the hall. An Odontoglossum Wilckeanum albens showed two spikes, and there was a Miltonia Bleuana virginalis with exceptionally large blossoms. A specimen plant of the true Cattely Trianæ alba was also shown.

Special Notice to Exhibitors

On account of the great demand for space at the Spring exhibition of the Massachusetts Horticultural Society and the annual exhibition of the American Rose Society, scheduled for March 23–26, 1905, intending exhibitors are advised to file their entries at least one week prior to the opening of the exhibition.

Preference will be given to such entries, if the conditions require it.

WM. P. RICH, *Secretary.*
Horticultural Hall, Boston.

NEW JERSEY FLORICULTURAL SOCIETY

The regular monthly meeting of this society was held on March 3 in Orange, N. J. The various exhibits in contest for the society's annual prizes were of the usual high order of cultural merit, and included roses from Peter Duff and William Reid, carnations from D. Kindsgrab, W. Bennett, William Reid, Peter Duff, and M. Hornaker, orchids from Edwin Thomas and A. Bodwell.

William Turner of Oceanic was the essayist of the evening, his subject being Fruits Under Glass. Mr. Turner made claim to the superiority of fruit grown under glass over the open or that imported, and asserted that when this was known it would be more extensively employed. This was the first essay under the new committee of which Edwin Thomas is chairman, and was received with great favor as an earnest of what is still to come.

J. B. DAVIS.

LONDON FRENCH HORTICULTURAL SOCIETY

Translated from the Revue Horticole by J. F. Huss.

The London French Horticultural Society, on the 14th of January, celebrated the sixteenth anniversary of its foundation. The banquet was presided over by M. Philippe de Vilmorin, on invitation of its honored president, George Schneider. Many notable horticulturists participated, among those present being Messrs, Ed. Sherwood, M. Watterer, R. C. Tucker, of Hurst & Son, M. Ingamells, and Collingridge, Editor-in-Chief of the Gardeners' Magazine, Drast Hiehle, S. Harman Payne, B. Wynne, and other members of the National Chrysanthemum Society, Ed. Seve, consul-general of the United Royal Belge, and P. Huguenet, director-editor of the French journal, the "Chronique," published in London. M. Geoffray, counsellor at the French legation, who presided at the banquet four years ago, being unable to be present, sent his regrets. Doctor Masters and Messrs. W. Robinson, Harry Veitch, and George Nicholson were also unable to be present. The toasts were responded to by M. Ph. de Vilmorin, Messrs. Schneider, Harman Payne, Serra, and Gordon, and the sentiments expressed were applauded with great enthusiasm, and many songs were rendered which added to the great gaiety and happiness of this delightful family festival which will long be remembered by the participants.

NORTH SHORE HORTICULTURAL SOCIETY

The annual banquet of this society was held in Lee's hall, at Manchester, Mass., on Friday evening, February 24th. President P. R. Sanborn presided and over one hundred members, with their ladies and friends, partook. After due justice had been done to the good things set before them, Mr. A. Akerman, State Forester, made an address, thoroughly explaining the aim of the department of which he is the head, with suggestions as to fighting insect pests, guarding against forest fires, etc., and also spoke very entertainingly along the lines of forestry as related to agriculture and horticulture. A fine program of vocal and instrumental music, followed by recitations, was thoroughly enjoyed, after which the floor was cleared for dancing with which the very enjoyable affair was brought to a close.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The next Field Day will be held on Saturday, March 11, 1905, at the greenhouses of Warren W. Rawson, Arlington.

Members and friends will take Arlington electric cars, leaving Park Street station at 1 o'clock, and leaving the cars at Medford Street, the nearest point to the greenhouses.

This should prove a most interesting and instructive Field Day, and a large attendance is hoped for.

W. N. CRAIG, *Secretary.*

TARRYTOWN HORTICULTURAL SOCIETY

The February meeting of the Tarrytown Horticultural Society being the quarterly social meeting, little business was transacted. The dates of the November (Chrysanthemum) show were decided upon, being October 31st and November 1st and 2d. The prize of the evening for the best vase of assorted roses wasa warded to John Featherstone, Greystone, Yonkers. L. A. Martin of Irvington gave him a hard run, but his roses were slightly lacking in stem. Mr. Featherstone also exhibited some fine plants of cyclamens and Cineraria Feltham Beauty. This cineraria is the result of a cross between C. creanthus and C. stellata, being a considerable improvement over the latter variety. In color the varieties of this cross run mostly to pink.

The secretary, E. W. Neubrand, was presented with a gold locket, suitably engraved, by his fellow members as a token of respect and appreciation of his valuable services in the interests of the society. Light refreshments were served, and several of the members entertained the company with songs, recitations, etc. Altogether a very pleasant evening was spent.

WM. SCOTT, *Cor. Secretary.*

NASSAU COUNTY HORTICULTURAL SOCIETY

The Nassau County Horticultural Society held its regular meeting March 1st. H. F. Meyer, gardener for George R. Sheldon, read a very interesting paper on the growing of mushrooms. The first exhibition of the Society being carnations, some very fine flowers were on exhibition. Special mention was given to W. Willisen, gardener for H. F. Noyes, for sport from Enchantress, several shades darker than the latter, and measuring 3¾ inches across; also to F. Boulon for sport from Lawson. Many others were represented in the exhibition, including F. Mense, with his beautiful white seedling "Dosoris."

S. J. TREPESS, *Secretary.*

AMERICAN ROSE SOCIETY

Additional special prizes are offered for competition at the annual exhibition to be held in Boston on March 23 to 26, as follows:

Pierson-Sefton Company, Jersey City, N. J., a $50 silver cup for the best vase of fifty blooms of teas or hybrid teas, not less than three varieties.

Welch Bros., Boston, a $25 silver cup for the best vase of roses in the show.

Peter Crowe, Utica, N. Y., a gold, silver, and bronze medal for the best, second best, and third best pair of vases containing twenty-five Brides and twenty-five Bridesmaids.

WM. J. STEWART, *Secretary.*

CHICAGO FLORIST CLUB

The Chicago Florist Club will hold an exhibition of Easter stock at their meeting room, Handel Hall, Thursday, March 23d, 1905. This exhibition will not be limited to club members, but a cordial invitation is extended to outside

growers. It is hoped and expected to see Turnford Hall begonia, The Baby Rambler rose, Azalea Indica and Mollis, Deutzia grœcilis, arrangements of hyacinths and tulips, Easter lilies, hydrangeas, and Primula obconica, etc Mr. Grower, right now is an opportune time to start your sample stocks for this exhibition. A special invitation is extended to bring your Easter novelties.

LENOX HORTICULTURAL SOCIETY

At the meeting of this society on March 4, Pres. Schmid read a very instructive paper on Carnations, from which arose a long discussion. This was carnation night, and a very good display of flowers was there. F. R. Pierson Co., Tarrytown, N. Y., exhibited some of their new varieties. They were awarded first class certificates for Victory, White Lawson, and Variegated Lawson, and a vote of thanks for Daheim, which had already received a first class certificate from this society. The principal exhibitors in the schedule classes were A. J. Loveless, J. Dallas, and Elm Court Farm. E. J. Norman was awarded a diploma for a very well-flowered piece of "Cypripedium venustum spectabile."

George Foulsham, *Secretary.*

CHRYSANTHEMUM SOCIETY OF AMERICA

Announcement of Special Prizes.

The following special prizes have been offered, to be competed for at the next annual meeting of the C. S. A., to be held in Philadelphia.

F. R. Pierson offers silver cup for 36 blooms, — 6 blooms each of 6 varieties introduced here in 1904 and 1905.

W. Wells & Co., Earlswood, England, offer a gold medal, a silver-gilt, and a silver medal for 6 flowers of chrysanthemum Mrs. Wm. Duckham.

Fred H. Lemon, *Secretary,*
Richmond, Ind.

FLORISTS' CLUB OF PHILADELPHIA

Lynch in the Lion's Den.

He came, he saw, he conquered! The man from West Grove we've been growling at these many years had the temerity to come down into the Lion's Den in Philadelphia March 7th, and meet us, tooth to tooth, and claw to claw, and talk roses and nomenclature, Balduin and Philadelphia, grafted and own roots, truth and fiction; yea, and to his glory be it said, he came out without a scratch!

Never, since the day that Edmund Burke assailed the ministry of Lord North in April, 1774, on the Boston Tea Question, has such marvellous eloquence, suave diplomacy, keen analysis, and masterly summing up greeted the ears of an astonished and admiring audience: wincing one minute and glowing with self-satisfaction the next. Oh, how he did go for us! Lathered us with taffy now; carved us into mincemeat the next instant. It was a peach! You can read it all for yourselves in this week's issue, and if you read it carefully and know the true significance of the points, you'll say with me "A Peach"!

This preamble refers of course to the appearance of P. J. Lynch at the monthly meeting of the Florists' Club of Philadelphia, and, all jokes and mock heroics aside, it was a very fine effort, and will be widely copied both here and abroad, wherever people are interested in the rose. Jacob Becker told me it was worth five dollars to come to the club to hear that talk.

Myers & Samtman exhibited their new seedling rose, a cross between American Beauty and Safrano. The color is rose pink, stems long and stiff, bright foliage, showing tea blood, form much better than Testout, although resembling it somewhat, but quite double and showing strongly its Beauty parentage.

The special feature for the April meeting will be "The Truth about Coal," a discussion which will be opened by Charles D. Ball, and in which a number of other growers are expected to give their views. A musicale under the auspices of the club will be held in Griffith Hall, March 30th.

NOTES

M. H. Walsh of Woods Hole, Mass., delivered a lecture on the rose and its culture in the garden, before the Holyoke (Mass.) Horticultural Society on the evening of March 1.

The annual dinner of the New Bedford (Mass.) Horticultural Society was held on the evening of February 28. Among the visitors were Thomas J. Grey and J. K. M. L. Farquhar of Boston. Mr. Farquhar made an instructive address.

A. Herrington of Madison read a very interesting paper before the Massachusetts Horticultural Society on March 4th, his subject being "Some Aspects of Hardy Flower Culture." We expect to present it for our readers' perusal in our issue of next week.

On the evening of February 28th the bowling team of the New Haven florists was entertained at Hartford by the Hartford Florists' Club. Three games were rolled, for the purpose of facilitating digestion, of which the New Haven aggregation captured two.

The New London and Groton Horticultural Society has changed its name to the New London County Horticultural Society. Three shows will be held — a rose show in June at Norwich, Conn., an August show, and a chrysanthemum show in New London. A ladies' night will be held at New London on March 21.

The first exhibition of the Worcester County (Mass.) Horticultural Society was held on March 1. H. F. A. Lange, E. W. Breed, George McWilliam, F. A. Blake, M. J. Whittall, George Melvin, and L. C. Midgley were among the prominent exhibitors; carnations, orchids, roses, primulas, violets, and potted plants in variety being shown in profusion.

The struggle between the New York and Hoboken florists' bowling teams waxes hot. On last Saturday night the New Yorkers visited their opponents' bailiwick and three games were played, the first two being won by the visitors; but the haggis and frankfurter combination turned the tables in the third by a margin sufficient to tie the series, the scores standing 23,530 for each. Next Saturday, March 11, there will be another set-to — this time on the New York alleys.

ROSES: THE NEW AND PROMISING VARIETIES

A Paper read before the Florists' Club of Philadelphia by P. J. Lynch, March 7.

In responding to the invitation of the chairman of the committee having charge of the evening's program, to give a "short" talk upon the new and promising roses, I think the polished diplomacy of the gentleman overcame my better judgment, for I know of no particular act of my life that justifies the honor thus paid me. Your club has ever been in the front rank in furthering the popularity of the rose, while the fame of your growers is world wide. For a slow town like Philadelphia, sending safely to England's Queen, as one of your growers did, a bunch of that beautiful rose of Philadelphia origin, Queen of Edgely, savored of a pace rather difficult to overtake. Then, too, while the origin of the ever popular American Beauty (or as has been claimed Mlle. Ferdinand Jamain) is somewhat obscure, yet it first attained prominence as a commercial variety through the foresight of a Philadelphia grower. Liberty, now so thoroughly established as a forcing variety, came into prominence through the efforts of a Philadelphia grower. Even that much discussed variety that to-day for amateur cultivation is perhaps the leading rose of its color, achieved notoriety through one of your local growers. Though gallantry was at stake as to whether it should be named for the Bishop or the Lady, the Bishop won. I refer to Balduin — Helen Gould. I might mention a host of now famous varieties, such as William Francis Bennett, Souvenir de Wootton, Golden Gate, Princess Bonnie, Pink Soupert, Marion Dingee, and many others whose rise of fame and popularity came through the intelligent efforts of growers of Philadelphia and its environs. With these facts in mind I approach this subject with considerable apprehension.

I am conscious of the fact that in the brief limitations of this paper it will be impossible to cover the subject completely and accurately. I shall therefore give you my observations as they have occurred to me in the daily contact with over a thousand different varieties of roses, coming as they have, from all parts of the world. I shall speak only of roses now in commerce, and while some varieties may be mentioned that are not entirely new so far as recent origin is concerned, yet it is to be borne in mind that there are a great many roses "Born to blush unseen and waste their sweetness on the desert air"; many for years remained unnoticed with their latent beauty undeveloped, until through sheer force of worth they rose to fame and glory. We have notable instances of this fact in Golden Gate, and more lately that Irish beauty, Killarney. I shall also give equal prominence to varieties that are undoubtedly valuable, not only for forcing purposes, but those varieties appealing to amateur growers, whose ranks are constantly increasing. Of this class, for whom I feel better fitted to speak than from a strictly professional standpoint, I can say that it is a gratifying indication of the rapidly increasing love for the queen of flowers, that the average amateur enthusiast — and there are thousands of them in all sections of the land — is keenly alert to the improvements of the rose, and not infrequently has a knowledge of va-

rieties as accurate as that of the professional grower. This growing interest of the masses bodes well for the future of the rose, and should prove a stimulus to American hybridizers, who may feel assured if their creations have merit, that the rose loving public will be quick to give them deserving recognition.

It seems fitting that I recommend at the outset that sensational new rose, Mme. Norbert Levavasseur, or Baby Rambler. This vivacious French débutante is the rose that blooms every day in the year. Growing in its full vigor 20 inches high, with finely polished dark-green foliage, with which it is abundantly supplied, it forms a compact bush, which with ordinary care is a mass of shining crimson beauty. For every purpose from the florist's standpoint it possesses the highest value, and for the amateur it is equally valuable. It is indeed a perpetual blooming, dwarf Crimson Rambler.

In the Rambler class may be also mentioned a variety that does not seem to gain the recognition it deserves as a rose of splendid worth — Dorothy Perkins. It is a true Rambler, particularly valuable for Christmas work, and equally as valuable in the open ground; thoroughly hardy, bearing in large clusters beautiful clear, shell-pink flowers, of excellent substance. Philadelphia Rambler, a recent introduction, bears out all that is claimed for it, and in some respects is an improvement over the old reliable Crimson Rambler.

One of the most unique and valuable of the newer roses is Soleil d'Or, the first of a new race, a cross between Persian Yellow and Antoine Ducher. It forms a strong, sturdy bush, very robust in habit, with foliage that emits the true sweetbriar fragrance. The flowers are sunset yellow or reddish gold, and are highly fragrant; hardy everywhere; splendid for single specimens or for hedges. In this same class of hardy roses of the Rugosa and Sweetbriar type may be mentioned Sir Thomas Lipton, a Rugosa rose. The flowers are large, very double, pure white and fragrant. It is freer blooming than any other Rugosa, and will prove a splendid variety for hedging puproses. From Germany comes another great new hardy rose — Frau Karl Druschki. The flowers are almost at large as American Beauty, deliciously fragrant, full, deep, and double. This variety may be called a free-blooming hybrid perpetual, being a cross between Merveille de Lyon and Mad. Caroline Testout. The color is snow-white. Apart from Margaret Dickson, we do not have a really great white rose in this class, and this variety may be considered one of the best, if not *the* best hardy hybrid perpetual rose of its color.

Among the newer hybrid teas of prominence and merit we have Bessy Brown, a really wonderful rose, with large, double, deep flowers, borne on strong, erect stems, after the style of President Carnot, which it resembles in growth and somewhat in flower, but is distinct enough to deserve a place at the head of the list. We hear but little of the rose that bears the honored name of Admiral Schley, which as a pot plant possesses rare value. The color is rich, glowing, velvety crimson. The flowers have unusual substance, a valuable point, are delightfully fragrant, and borne in great abundance; a clean, healthy, dwarf grower, with splendid foliage. Since Killarney has become recognized as a rose of more than ordinary merit, such roses as Mad. Julez Grolez, its counterpart in color and almost equal in flower, remains unnoticed. A splendid grower, and with proper management should prove a strong competitor of Killarney. The list is incomplete without Lady Joy, a cross between American Beauty and Belle Siebrecht, a royal parentage; flowers large, cup-shaped, almost double, with enormous shell-like petals of good substance, highly fragrant; the color is new — lively crimson. Mrs. Robert Garrett is of the same type, but not as free blooming; immense bright, clear pink flowers. We cannot omit Winnie Davis, one of the fairest of the newer hybrid tea roses. Very free blooming, of good habit of growth, with immense, long heavy buds, splendidly formed, developing into unusually large flowers. Color, bright apricot pink, shading flesh tint at the base of petals.

Right here I wish to compliment our American rose growers upon the splendid results achieved in producing new roses of merit. Fully conscious of what our brothers across the sea have done for the rose, for which we are indebted to them, I would say naught against the magnificent work they have done, and are doing. Unlike our American growers, however, who hesitate to offer a rose unless it be of pronounced merit, from my own personal experience, each year hundreds of varieties are produced in Europe, many of which have little or no merit to commend them. I know of nothing that is so fraught with pleasure, as well as disappointment, as the trying out of new roses, and it has been the practice of our company up until recent years to try out the new roses of Europe as they have been introduced, and I can say that the large majority of these new varieties of foreign origin have been disappointing. Therefore our American growers are to be not only congratulated, but also commended upon the work they are doing, and the precaution shown in introducing any and every seedling they originate.

I need not call attention to Mr. Hill's splendid new rose, Richmond. It has spoken for itself, and as a candidate for popular favor in the class of red forcing roses, it seems to be a decided improvement over any we have at this time. Rosalind Orr English is another promising hybrid tea. Mr. John Cook, to whom we doff our hats as one of the veteran introducers of meritorious new roses, contributes Cardinal, a beautiful crimson hybrid tea, and Enchanter, an extremely free-blooming variety with large, clear, bright pink flowers. Mr. Cook selects this variety as the best of over five hundred seedlings. Let me recommend Souv. de Pierre Notting as one of the best roses for all around purposes introduced in many years. It will take front rank, if not surpass from every standpoint, white and pink Maman Cochet, the best roses for summer flowering in the open ground. This new variety is a splendid grower, throwing up beautiful flowers on long, stiff, erect stems. The bloom is large and double, opens easily and possesses unusual substance. Difficult to describe, apricot yellow, tinged with golden, mixed with orange yellow while the edge of the petals are shaded carmine. Every florist who has a foot of ground for summer roses should have this rose. Mad. Derepas-Matrat has established itself as a companion to the Cochet roses, which it resembles in every particular, except the color is deep yellow.

The following varieties are also among the most promising of the newer sorts: Canadian Queen is an improvement over Mrs. J. Pierpont Morgan; Mad. Cusin and Mrs. Oliver Ames, the latter which it resembles in color; General MacArthur, a vivid crimson hybrid tea; Red Chatenay, deeper in color than the parent; Uncle John, more pronounced in color than Golden Gate; Beauty of Rosemawr, rich carmine red, valuable for outdoor purposes; La Detroit, distinct and valuable, shell pink, good for forcing; Saxonia, worth trying as an improvement over Golden Gate; Mrs. B. R. Cant, unusually valuable for amateur cultivation, better than Papa Gontier; Aurora, an improvement over Hermosa; Franz Deegen, an immense, deep, double, yellow rose, alike in habit and growth with Kaiserin Augusta Victoria, and far superior to Perle von Godesburg, sent out as Yellow Kaiserin; Florence Pemberton, a strong-growing hybrid tea, large shell-pink flowers, good for open ground work; Maddalena Scalarandis will rank with the Cochet roses outdoors; color rich, dark pink, on yellow ground.

Ideal ranks with Bridesmaid and La France, pink in color. As an example of an exceedingly rare rose, I mention the variety York and Lancaster, which dates back to the War of Roses between the royal houses of York and Lancaster, said to have originated when these warring factions became united, its colors representing the white of the Yorkists and the red of the Lancastrians, the flower being a combination of red and white blotched and striped. Magnafrano is a free-blooming hybrid tea, with large, double, pink flowers. Wellesley is a remarkably free flowering forcing variety. The color is bright pink; a good keeper. For greenhouse men doing a local trade there is always a demand for a hardy ever-blooming climbing rose. To meet this demand there is no better variety than Climbing Clotilde Soupert.

GREENHOUSES BUILDING OR PROJECTED

WEST MILAN, N. Y. — Allen Traver, violet house.

CARROLTON, Mo. — Kennedy & Farham, three houses.

WICHITA, KANS.—Charles P. Mueller, three houses, each 20×125.

JAMAICA, N. Y. — A. L. Miller, two houses, each 100 feet long.

LIST OF PATENTS

Issued February 28, 1905.

783,622. Window-shelf for Plants. George W. Curtis, New Britain, Conn.

783,760. Fruit-picker. Charles Schakl, Caldwell, N. J.

783,479. Cultivator. Elmer M. Swanson, Blue Rapids, Kans.

783,796. Cultivator. William Newby, Dehaven, Pa.

OBITUARY

Mrs. Fred R. Mathieson died on the evening of Wednesday, March 8. Mrs. Mathieson has been a great sufferer for years. Her illness took an alarming turn last Saturday, since which she has been unconscious most of the time. Mr. Mathieson has the sympathy of a wide circle of friends in his bereavement.

Outdoor Art and Craft

The Massachusetts Highway Commission, Boston, is advertising for 4,000 trees of various kinds, offers to be made up to noon, March 16.

The Boston & Maine railroad has organized a department to exterminate the gypsy and brown-tail moths on the trees and shrubs at its stations and all along the route from Boston to Portland.

Arboriculture for March gives a beautiful colored plate of several species of its favorite, Catalpa. A number of half-tone illustrations, showing the waste of the loggers in the great forests of the West furnish food for reflection. The wanton waste of timber in the past and at present is most deplorable, and *Arboriculture* is doing good work in sounding the alarm.

There are at present approximately three millions of acres of woodlands in the State of Massachusetts, or sixty per cent of its total area. The greater part of these woodlands is in private holdings, and will always remain so. It is believed that the wealth of the State can be greatly increased if these owners can be induced to practice improved forestry methods. The State Forester is therefore giving a considerable part of his time to talks and lectures before farmers' clubs, granges, and kindred organizations.

AMERICAN APPLES IN ENGLAND

The reports from local markets as to the condition of the pack of American apples put on the English market are exceedingly creditable to the packers. It is seldom that the standard varieties popular in the English market have turned out so much in favor and to the taste of the buyers, the fruit being of that firm mold and solid condition generally required in this market.

In 1903 the enormous amount of 11,000,000 bushels of American and Canadian apples was sold in the English market, and from present appearances that record will be nearly, if not quite, equaled from the crop of 1904.

There are several fine varieties of English apples, produced in a small way in local orchards, which it would be well to test in the more temperate zones of the United States, for they are a very superior fruit in flavor, are long keepers, of fine size, and of most inviting color. However, quoting an English authority, "The American fruit grower knows how to attract the purchaser by uniformity in size and quality in a way which English growers have hardly begun to learn. And so, in the big towns, the English product hardly finds one purchaser at 2 pence (4 cents) a pound, where the American fruit finds ten at double the price."

There has been very little change in the market methods touching apples in a local way in the past quarter of a century. I have observed these methods personally in 1878 and in the past two years, and so they continue.

ALBERT W. SWALM,
Consul.

Southampton, Eng., Jan. 25, 1905.

GREENHOUSE MATERIAL

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In writing advertisers, kindly mention HORTICULTURE.

CHICAGO TRADE TIPS

The finest tulips seen on the local market this season are White Hawk, a single beautiful pure white, long sharp pointed bud. Its habit of growth is perfect, the immense large bloom carried erect on a long, stiff stem, well above the foliage. In a novelty color, all the rage now, single tulip Thomas Moore, takes the lead. Shape of flower somewhat like La Reine, but longer. The color might be called burnt orange. This being the elite shade of the season, we attribute this variety's popularity to that fact. Salvator Rose is a fine double-pink bloom, as large as Murillo, full double, and of a beautiful warm pink. This variety promises to crowd Murillo for first place. Some well-grown Murillo, the standard double pink, are seen with fine finish. Imperator Rubrum is a good double red. Compared to the cut of former seasons, La Reine is of good quality, not so much rouge strain prevalent this year. It seems to respond quicker to the pink finish so desirable in this sort. Kaiser Kroon, as grown by Stollery Bros., certainly belongs in the novelty class, stems 14 to 18 inches long, supporting a fine, long pointed bloom. All the above-mentioned varieties are good forcers, and my next week's tip will tell you the best single red, single yellow, and a good double to force.

CUT-FLOWER NOVELTIES IN CHICAGO

E. H. Hunt is receiving a fine strain of English wallflowers. White and double-pink stock is another of McKeller's head-liners. The finest sweet peas in Chicago are to be found at Vaughan & Sperry's. A. L. Randall Co. are the exclusive white lilac firms, also the first purple lilac offered this season was seen here.

Easy: ——

TO MAKE MONEY on Geraniums like these. S. A. Nutt, from 3-inch pots August-struck cuttings; each plant will produce from 1 to 3 cuttings before time for planting out. $3.00 per 100. Cash, please.
H. M. TOTMAN, RANDOLPH, VT.

ACERATUM PAULINE One of best Pot Plants. Rooted Cuttings potted now will make 4-in. pot plants in May. R. C. 50c. 100 this week.
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Chrysanthemums

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Inquire H. H., Care HORTICULTURE,
11 Hamilton Place, Boston.

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11 Hamilton Pl., Boston.

WANTED — By March 1st. Assistant Gardener for private place near Lenox; one who thoroughly understands Roses, Grapes, Orchids, etc. Wages $30.00 a month and board. Address stating age, experience, references, etc.

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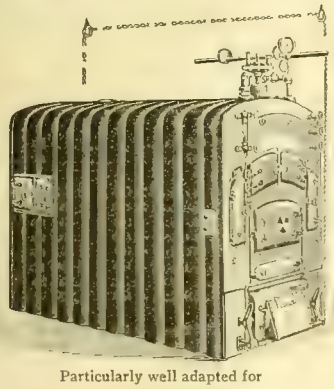
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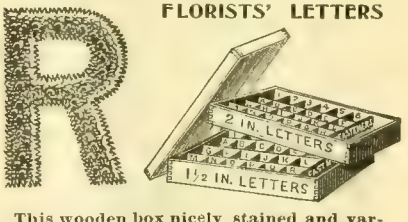
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Block Letters, 1½ or 2-inch size, per 100, $2.00.
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Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.
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Choice Beauties, Brides and Maids. Fancy Carnations.

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Beauties, Liberties, Brides and Maids

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WHITE VIOLETS

In Quantity. Extra Choice

Samuel S. Pennock

THE WHOLESALE FLORIST OF PHILA.

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SOLE AGENTS FOR

FOLDING BOXES

Durable Economical

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Hardy Cut **Dagger and Fancy**

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$1.50 per 1000

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Best Stock of FLORISTS' SUPPLIES in the country

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WILLIAM J. BAKER

WHOLESALE FLORIST 1432 So. Penn. Sq., PHILA.

Fancy Carnations

Bulbous Stock in Variety

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EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO March 8	ST. LOUIS March 7	PHILA. March 7	BOSTON Mar. 1
ROSES				
Am. Beauty, Fan. & Sp.	40 00 to 50 00	40 00 to 50 00	..... to 60.00	25.00 to 30.00
" Extra	32 00 to 36 00	25.00 to 35.00	40.00 to 50.00	20.00 to 25.00
" No. 1	15 00 to 25 00	15.00 to 25 00	25.00 to 35.00	8.00 to 12.00
" Lower grades	2 00 to 8 00	4 00 to 12.50	8.00 to 15.00	4.00 to 8.00
Bride & 'Maid — Fan. & Sp.	8 00 to 10 00	6.00 to 8.00	15.00 to	6 00 to 8.00
" " Extra	6.00 to 8.00	4 00 to 6.00	10 00 to 12.00	4.00 to 6.00
" " No. 1	4 00 to 6.00	..... to	8.00 to	2.00 to 3.00
" " Lower gr.	1 00 to 3 00	..... to	5.00 to 6.00	..... to .....
Liberty, Fancy & Special	8 00 to 10 00	6.00 to 8.00	25.00 to 35.00	8.00 to 12.00
" extra	6 00 to 8.00	4.00 to 5 00	18.00 to 20.00	6 00 to 8.00
" No. 1	4 00 to 6.00	..... to	12.00 to 15.00	4.00 to 6.00
" Lower grades	2 00 to 4 00	..... to	6 00 to 8 00	2.00 to 4.00
Golden Gate { Best	6 00 to 8 00	6 00 to 8.00	12 00 to	..... to 6.00
Ivory { Medium	4.00 to 6.00	4 00 to 5 00	8 00 to 10.00	..... to 4.00
Chatenay { Culls	1.00 to 3 00	..... to	4.00 to 6.00	..... to 2.00
CARNATIONS				
Fancy Class	2.50 to 3 00	3.00 to 4 00	4.00 to 6.00	2.00 to 3.00
General Class	1.50 to 2 00	1.50 to 2.00	2.00 to 3.00	1.00 to 2.00
Lower Grades	.75 to 1 00	..... to 1.00	1.50 to	.75 to 1.00
VIOLETS				
Special	.50 to .75	..... to	.50 to .75	.40 to .60
General	.20 to .50	.20 to .75	..... to	.25 to .35
Single	.20 to .60	..... to	.25 to .50	.20 to .25.
ORCHIDS				
Cattleyas	50 00 to 75 00	..... to	60.00 to	..... to .....
Cypripediums	12 50 to 16 00	..... to	15.00 to	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	6 00 to 10 00	10.00 to 12 00	6.00 to 8.00
Lily of the Valley	2 00 to 3 00	.... to 3.00	2 00 to 5.00	2.00 to 3.00
Roman Hyacinths	2 00 to 3 00	2 50 to 3.00	3.00 to 4.00	1.00 to 2.00
Paper White Narcissus	2 00 to 3.00	..... to 3 00	3 00 to 4.00	1.00 to 2.00
Daffodils	1.00 to 3.00	2.00 to 3.00	2 00 to 4.00	2.00 to 3.00
Tulips	1 50 to 4 00	..... to	2.00 to 4.00	2.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8.00
Freesia	1 50 to 2 00	2 00 to 2.50	2 00 to 4.00	1.00 to 1.50
MISCELLANEOUS				
Mignonette	3.00 to 10.00	4.00 to 5 00	2.00 to 4.00	1.00 to 2.00
Sweet Peas	.50 to 1.25	.25 to .50	.75 to 1.50	.50 to 1.00
Adiantum Cuneatum	.75 to 1.25	..... to 1 00	1.00 to	.75 to 1.00
" Croweanum	..... to	..... to	1 50 to	..... to .....
" Farleyense	..... to	..... to	10 00 to	..... to .....
Smilax	10 00 to 12 50	12 50 to 15.00	15.00 to	12.00 to 16.00
Asparagus Plumosus; strings	25 00 to 35 00	..... to	50 00 to 75 00	..... to 50.00
" bunches	2 00 to 3 00	..... to	50.00 to 75 00	35 00 to 50 00
" Sprengeri "	2.00 to 3 00	..... to	50.00 to 75.00	35 00 to 50.00
Gardenias	.. to ...	..... to	12 50 to 15.00	..... to .....
Lilac per bunch	.75 to 1.00	..... to 1 00	1.00 to 2 00	.75 to 1.00

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

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Florists' Supplies and Letters

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Southern Wild Smilax
(From a case to a carload)
At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

J.A.BUDLONG
37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty..... WHOLESALE GROWER of CUT FLOWERS

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS

Cut Flower Market Reports

BOSTON. — Down goes the market with a dull thud on Ash Wednesday morning. Values not only cut to about half, but stock unsalable and without prospect. This applies to about everything in the list. The demoralization was not unexpected. At present there is nothing to be done, but to wait patiently for things to assume a new level.

BUFFALO. — Flowers of every description are rather plentiful — more than are needed — and prices are somewhat low in general. Roses, which have been selling at fair prices, will be cheaper from now on; carnations also. Violets and bulbous stock are very plentiful. There will be a general slump after the opening of Lent.

CHICAGO. — A sharp expansion in receipts, occasioned by the spring-like weather, has marked the cut-flower trade this week. The bright weather has improved the inferior quality in American Beauties somewhat, however, the much-sought-for new crop is not yet on. Bride and Bridesmaids are in heavy supply with a slight decrease in values on the best grades. Meteor and Mme. Chateney move slowly. Liberty are in shorter supply and this is especially felt on the better grades. Golden Gate and Perle show an improved quality. Uncle John is in grand shape. Sunrise is grown in smaller quantities, but a standard sort hereabouts. Carnations are on in full crop, and the discounts necessary to unload would bring blushes to the cheek of Halsted Street. A local house saved the market from a further decline, shipping an order of 30,000 fancy on Friday. Violets are in heavy supply, the quality of singles being superb. Lady Campbells are hard to move. There has been a disappointing demand on all bulbous stock, Harrisii and callas suffering most. The tulip situation is not much better, only the better grades reaching market quotations. There was some hope that Mardi Gras at New Orleans would be the factor in giving strength to this market, but local houses report orders were not up to last year.

LOUISVILLE. — Business conditions for the past week are reported as very satisfactory in all respects. All staple flowers are available in satisfactory quality and full abundance. Violets are selling exceedingly well, but quality is not quite up to standard.

NEWPORT. — The market has decidedly improved since the beginning of last week; the stock coming is very good in quality and equally good prices are obtained. Funeral work is not perhaps the most congenial part of florists' work, still it is occasionally quite profitable, especially if (as has been the case here this week) on Monday morning quite a surplus of certain kinds of stock is on hand from last week, five or six funeral orders come in to use up this surplus stock, which otherwise might be hard to dispose of.

NEW YORK. — Just now, as a last Ash Wednesday puts its extinguisher on social gaiety, after a winter of unusual rigor and the prospects of an overwhelming crop from tardy houses, grower and wholesaler alike are filled with apprehension regarding market conditions for cut flowers in the immediate future. Values all through the season have not kept on a proper level as compared with the cost of the unprecedented quantity of fuel consumed, and demoralization now will mean that it will be up-hill work to bring the average of the entire season's product to a point where the grower will realize any fair return for his investment and labor. Retail dealers are not particularly jubilant over the season's record, either, most of them conceding that the months of January and February fell away behind record and expectations. All varieties of flowers are being received in increasing abundance and it is extremely doubtful if prices as given in our quotations for first half of the current week will continue beyond Wednesday. All are hoping that misgivings are unfounded, and that a brisk demand may characterize the Lenten season and be followed by a record-breaking Easter business.

PHILADELPHIA. — The cut flower market last week was in pretty fair shape: good demand all along the line, except for some items, such as lilies, bulbous and miscellaneous stock. Beauties are still scarce; but prices remain unchanged. "First time on record that $7.50 has been realized for Beauties in March;" that is the assertion of one of the largest and oldest of the Philadelphia wholesalers. Lent seems to have largely lost its terrors, as there is no anticipation of any great slump. People are not as strict as ten years ago, apparently.

PITTSBURG. — Local growers are not boastful of any phenomenal success with roses and carnations. In fact, everything is very slow. We have had an exceptionally good demand for fancy Beauties and the same may be said of carnations, of which some very fine grades are also coming in from out of town. One shipment from Columbia City, Ind., deserves to be commented on. In a box of about 1,000 carnations not one was broken or bruised. The flowers were not tied in bundles of 25, but each bloom placed singly.

Good violets are coming in by the thousands and are easily disposed of. As to daffodils and tulips — it would seem that every farmer in Allegheny County has been exchanging apples or corn for daffodils, the way they are coming in. There is no call for orchids and gardenias. Pot plants are in demand and quite a shipment of cyclamens and Primula obconica arrived in town this week. Some obconicas in 6-inch pots were well grown and the various shades of color made quite a pleasing display; by Saturday noon none could be bought.

ST. LOUIS. — Last week closed with an unwieldy glut on all kinds of stock The present week opens somewhat more briskly, but the improvement can hardly be expeceted to last.

Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

FRED EHRET WHOLESALE FLORIST
Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.
1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK
In writing to advertisers, mention HORTICULTURE

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Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
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SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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Telephone : 902 Madison Sq.
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Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
VIOLETS
Carnations
Lily of the Valley
Hyacinths, Lilies
Paper Whites, and
all other flowers
in season
Telephones 2200 / 2001 Madison Square
Special care taken with Shipping Orders
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ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside, N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100 TO DEALERS ONLY

	Last Half of Week ending March 4, 1905.	First Half of Week ending Mar. 6 1905.
ROSES		
Am. Beauty, fan. and sp	35 00 to 50 00	35.00 to 60.00
" extra	12 00 to 25 00	12.00 to 30.00
" No. 1	6.00 to 10 00	6.00 to 20.00
" Lower grades	.50 to 3.00	1.50 to 6.00
Bride and Maid, fan. and sp	10 00 to 12.00	8.00 to 10.00
" " extra	6 00 to 8 00	6.00 to 8 00
" " No. 1	4.00 to 6 00	3.00 to 5 00
" " Lower gr	3 00 to 4.00	2.00 to 3.00
Liberty, fan. and sp.	20 00 to 30.00	12.00 to 25 00
" extra	12.00 to 15 00	8.00 to 10.00
" No. 1	4 00 to 6 00	4.00 to 6.00
" Lower gr	1 00 to 2 00	1 00 to 3.00
Golden Gate Best	10 00 to 15 00	10.00 to 12.00
Ivory Medium	4 00 to 8 00	4.00 to 6.00
Chatenay Culls	3 00 to 4 00	2.00 to 3.00
CARNATIONS		
Fancy Class	3.00 to 4.00	2.00 to 5.00
General Class	1.50 to 2 50	1.00 to 2.00
Lower Grades	.50 to 1.00	.50 to .75
VIOLETS		
Special	.40 to .60	.40 to .60
General	.20 to .30	.20 to .30
Single	..... to	.20 to .40
ORCHIDS		
Cattleyas	40 to 50	50.00 to 60 00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	4 00 to 6 00	4.00 to 8.00
Lily of the Valley	2 00 to 3 00	1.00 to 4.00
Roman Hyacinths	1 50 to 2 00	1 00 to 2.00
Paper White Narcissus	1 00 to 2 00	1.00 to 2.00
Daffodils	2 00 to 3.00	1 50 to 3 00
Tulips	1.50 to 6 00	1.00 to 4.00
Callas	..... to	..... to .....
Freesia	1.00 to 2.00	.50 to 1.00
MISCELLANEOUS		
Mignonette	3 00 to 5 00	1.00 to 6.00
Sweet Peas	50 to 1 00	.50 to 1.00
Adiantum Cuneatum	1.50 to 2 00	.75 to 1.00
" Croweanum	..... to	1.25 to 1.50
" Farleyense	..... to	..... to .....
Smilax	10 00 to 15 00	10.00 to 16.00
Asparagus Plumosus, strings	35 00 to 50 00	25 00 to 50 00
" " bunches	20 00 to 35 00	20.00 to 35.00
" Sprengeri "	25 00 to 35 00	20 00 to 35 00
Gardenias	..... to	..... to .....
Lilac, per bunch	.75 to 1.00	.50 to 1.00

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

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Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

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Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

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55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

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Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

Violet and Carnation Growers
Will find a reliable market with
W. H. GUNTHER
30 W. 29th Street, New York
Recognized Headquarters for HIGH QUALITY FLOWERS
17 years established Tel., 551 Madison Sq.

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
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WHOLESALE FLORIST
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Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 W. 28th St., New York
Tel. 2559 Madison Sq.

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JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
Traendly & Schenck
44 West 28th St. New York City
Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted. A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI March 6	BALTIMORE Feb. 21	BUFFALO March 8	PITTSBURG March 6
ROSES				
Am. Beauty, fan. and sp.	40 00 to 50 00	.. to ..	30.00 to 40.00	50 00 to 60.00
" extra	25.00 to 40.00	40 00 to 50 00	20.00 to 25.00	30 00 to 40.00
" No. 1	12.50 to 15.00	25 00 to 35 00	10.00 to 15.00	15 00 to 20 00
" Lower grades	4.00 to 8.00	6.00 to 15 00	2.00 to 6.00	6 00 to 10 00
Bride and 'Maid, fan and sp.	..... to 8.00	..... to	.... to	15 00 to 18 00
" " extra	..... to 6.00	..... to 10 00	8.00 to 10.00	10 00 to 12.00
" " No. 1	..... to 5.00	..... to 8 00	5.00 to 7.00	6 00 to 8 00
" " Lower gr.	3.00 to 4.00	5.00 to 7.00	2.00 to 4.00	3 00 to 4.00
Liberty, fan. and sp.	.... to 8.00	..... to	..... to	18.00 to 20 00
" extra	..... to 6 00	..... to	10.00 to 12.00	15 00 to 18 00
" No. 1	..... to 4 00	..... to	7.00 to 10.00	6 00 to 10 00
" Lower gr.	..... to	..... to	3.00 to 6.00	4 00 to 5 00
Golden Gate } Best	.... to 6.00	..... to 10.00	6.00 to 8.00	10.00 to 12 00
Ivory } Medium	4.00 to 6.00	..... to 8 00	4.00 to 5 00	6 00 to 8 00
Chatenay } Culls	.... to 3.00	5.00 to 6.00	2.00 to 3.00	3.00 to 8.00
Killarney	..... to	..... to	..... to	18.00 to 20.00
CARNATIONS				
Fancy Class	.... to 3.00	4.00 to 5.00	3.00 to 4.00	5.00 to 6.00
General Class	..... to 1.50	2.00 to 3 00	2.00 to 2.50	3 00 to 4.00
Lower Grades	..... to 1 00	1 00 to 1.50	1.00 to 1.50	1.00 to 2 00
VIOLETS				
Special	..... to .75	.... to .75	.50 to .60	1.00 to 1 25
General	..... to .50	.50 to .60	.30 to .40	.75 to 1.00
Single	..... to .35	.40 to .75	.25 to .50	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	50.00 to 60.00	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 12.50	10.00 to 12 50	12.50 to 15.00	12 00 to 18 00
Lily of the Valley	3 00 to 4.00	3 00 to 4 00	2 00 to 4 00	3.00 to 4 00
Roman Hyacinths	2.00 to 3 00	2.00 to 3.00	2.00 to 4.00	2 00 to 3 00
Paper White Narcissus	..... to 2.50	2 00 to 3.00	2.00 to 4.00	2 00 to 3.00
Daffodils	.... to 2.00	.... to 3 00	2.00 to 4.00	4 00 to 6 00
Tulips	2.00 to 3 00	3 00 to 4.00	2.00 to 4.00	2 00 to 4.00
Freesia	..... to 1.00	6 00 to 10 00	2.00 to 3.00	.... to ....
Callas	.... to	..... to	..... to	10 00 to 15 00
MISCELLANEOUS				
Mignonette	.... to	2 00 to 4 00	3.00 to 5.00	1.00 to 3.00
Sweet Peas	.75 to 1 00	..... to 1.00	.40 to .75	.50 to .75
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.75 to 1.00	.75 to 1 00
" Croweanum	..... to	..... to	1.50 to	1 25 to 1 50
" Farleyense	..... to	..... to	10.00 to 12.00	.. to ..
Smilax	10 00 to 12.50	15 00 to 25.00	12.50 to 15.00	12 50 to 15 00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50 00	40.00 to 60.00	30 00 to 50 00
" " bunches	..... to 35 00	25 00 to 50 00	25.00 to 50.00	25 00 to 40 00
" Sprengeri "	..... to 35.00	25 00 to 50.00	25.00 to 50.00	30 00 to 50 00
Gardenias	..... to	..... to	.... to	.... to ....
Lilac, per bunch	..... to	..... to	1.50 to 2 00	..... to .....

IT TAKES $20,000 worth of postage stamps to mail THE MAULE SEED catalogue for 1905. It contains 152 large pages, full from cover to cover of illustrations and descriptions of the best and newest things known in horticulture. As the original introducer of Prizetaker Onion, Nott's Excelsior Pea, Davis' Wax Bean, etc., I know what I am saying when I make the statement that never before have I offered so many novelties in flower and vegetable seeds of real merit. No gardener can afford to be without this book, which will be sent free to all sending me their address on a postal card.

WM. HENRY MAULE, PHILADELPHIA, PA.

In writing to advertisers, kindly mention HORTICULTURE

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

W. C. Tabor of New Bedford, Mass., who has made careful records for many seasons, reports that the first crocus bloomed this year on February 27, this being twenty days later than last season and the latest for over twenty years, February 24, 1896, being the latest previous record.

Clucas & Boddington Co., whose canna trade has always been very extensive, report an unprecedented demand already this season from all quarters for dormant roots. Whether this indicates revived interest in the canna, or that stocks generally have not kept over well is not apparent, but in either case this firm is well stocked with good material to supply all demands.

On Wednesday evening, February 22, Washington's Birthday was recognized fittingly by a visit to New York city by a delegation from the fertile districts of Long Island, including C. Bertanzel, Jack Everett, the two Dunebroskys, John and Steve, Ed. Johnson, and Jimmy Bell, and an old-fashioned protracted bowling contest was indulged in, the intermissions being well filled in with vocal selections by the Rickards Bros.

CATALOGUES RECEIVED

Andrew Jackson Norton, Boston. Old Hickory seeds. A very well-prepared catalogue, with attractive cover in colors.

Burpee's Prize Supplement. Tells of the winnings of the past year by the seeds sent out by this hustling Philadelphia seed-house.

W. W. Hunt & Co., Blue Hill Nurseries, Hartford, Conn. Calatogue of fruit and ornamental trees, shrubs, and garden plants in choice selection.

Bay State Nurseries, North Abington, Mass. A comprehensive list of hardy trees and shrubs, ornamental evergreens and herbaceous plants, Contains the cream of this class of material.

Ross Bros., Worcester, Mass., Annual Catalogue of Seeds and Implements. Resplendent in a scarlet cover, appropriately adorned. Comprises a big list of seeds and garden requisites.

Dreer's Hints and Suggestions for the Garden is an illustrated folder, listing some interesting and valuable novelties in flower and vegetable seeds for 1905. Among them are the hybrid delphiniums which won a gold medal at Boston last year.

Business Changes

Whittle & Riggs has been incorporated at Albany, N. Y.

Adams, Morgan & Co., succeed Andrew Peterson at Paxton, Ill.

The Egg Harbor City (N. J.) Cut Flower Company has started business as a retail flower establishment.

The Universal Horticultural Establishment has been incorporated with capital $125,000 at Jersey City, N. J.

J. I. Gurney, Dorchester, Mass., has filed a petition in bankruptcy. Liabilities are given as $1,708 99; assets none.

The Green Mountain Conservatory opened for business on March 1 in a store in the Times Block, Bellows Falls, Vt.

H. F. Littlefield, Worcester, Mass., has opened a new store at 407 and 409 Main Street. This is a very central location and well adapted for transient trade.

The wholesale cut flower interests in New York are gradually closing in on West 28th street. Ford Bros. will remove from West 30th street to 48 W. 28th on or about April 1, and will have a spacious and well-appointed establishment. Joseph S. Fenrich is also to remove, either April 1 or May 1; from W. 30th to 37 W. 28th, the store formerly occupied by the Kurzman-Dacre Company. This will make fourteen concerns located between Nos. 37 and 57 West 28th street

News Notes

In the New York cut flower market, the white lilac Marie Le Graye is seen in goodly quantity, and in so fine a grade that it has displaced all other white sorts in favor.

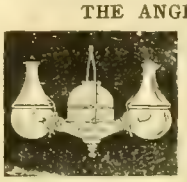
Charles Simons, who left Montpelier, Vt., on January 7th, charged with embezzlement by Emslie & Broadfoot, has been arrested in Boston, and sent to Montpelier, where he will be given a hearing later.

The opening auction sale for the spring season of 1905 will take place at 54 Dey street, New York, where the voluble Wm. J. Elliott will once more face the customary audience of distinguished buyers, on Tuesday, March 14.

Both the Wabash and P. R. R. are making a schedule of excursions for visitors from out of town to visit the great display at Phipps Conservatory, Schenley Park, Pittsburg, which opens much earlier this year, owing to the lateness of Easter Sunday.

Frank Millang puts Bertha Rath in the first rank as a commercial white carnation. This variety is grown by E. Nicol of West Somers, N. Y., with such good results that he will continue to devote his entire establishment to it the coming season, building additional houses for it.

THE ANGLE LAMP



No article advertised in our columns could be more serviceable to the florist located where neither gas nor electricty are available for lighting purposes (and there are very many such), than the Angle Lamp. Its peculiar construction throws the light downward with no under-shadow, which is true of no other kerosene burner. This advantage, as well as the fact that it makes no smoke or odor, is lighted and extinguished like gas and gives a remarkably abundant steady light, renders the Angle Lamp a value in the work-rooms, potting-shed, or office that will be quickly appreciated when once it is used.



CLEMATIS MONTANA GRANDIFLORA

Clematis Montana Grandiflora

A variety of Clematis which, when better known, is destined to become as popular as Clematis Paniculata, its main value being in the fact that it flowers in advance of all other hardy climbers, frequently beginning to expand its flowers as early as the last week in April, continuing well through May. These flowers are from 1 1-2 to 2 inches in diameter and of a pure white color, and are produced in such masses as to completely hide the plant, which is of remarkably strong vigorous growth and insect and disease proof.

Stock limited. Strong two year old plants

35c. each; $3.50 per dozen

Henry A. Dreer

714 Chestnut Street Philadelphia, Pa.

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LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for - - - $24.00
Two or more cases at - $7.50 per 1000

J. M. THORBURN & CO.,
36 Cortlandt St., New York.
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AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts Leading Machines
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Silver Medal.—Mass. Horticultural Society, 1904.
Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.
Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
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Advertising costs good money. We are doing our best to make it remunerative to our patrons.

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Sow Now
Lobelia Crystal Palace Compacta
1-8 oz., 25c.; oz., $1.50
Lobelia Erinus Gracilis
1-8 oz., 10c.; oz., 40c.
W. W. RAWSON & CO.
12 and 13 Faneuil Hall Square, Boston, Mass.
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Advertising well placed hits the nail on the head every time. Let us help you to make business good.

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HORSESHOE BRAND
and PLANTS
Ralph M. Ward & Co.
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PHILADELPHIA

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THE BEST IN THE WORLD
Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.
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ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

Summer Flowering BULBS

	100	1000
Ismene Grandiflora	$6.00	$50.00
Madeira Vines	1.00	8.00
Spotted Callas	3.00	25.00
Tritoma Pfitzeri	7.00	60.00
Gladioli, mixed, 1¼ in. diam.	.60	5.00

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Eight per cent. discount for cash.
Special price on large quantities.
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Quality Seed Bulb Plant **S**
Arthur T. Boddington
SEND FOR CATALOGUE
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Tuberoses, Lily of The Valley
Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
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Wm. F. Kasting, 383-87 Ellicott St, Buffalo, N. Y.

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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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ANGLE LAMP.
Globe Gas Light Co., 77-79 Union St., Boston
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Suzuki & Iida,
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26 & 27 S. Market St., Boston
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J. M. Thorburn & Co.,
36 Cortlandt St., New York
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W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

CALIFORNIA PRIVET.
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Charles Black, Hightstown, N. J.
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Cottage Gardens Co.,
Queens, N. Y.
Lieut. Peary.

S. J. Reuter, Westerly, R. I.
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F. R. Pierson Co. Tarrytown, N. Y.
Variegated Lawson, White Lawson, Daheim, Fiancee, Cardinal, Fred Burki, Victory, and all standard varieties.

Jensen & Dekema, 631 W. Foster Av., Chicago.

Rooted Carnation Cuttings
Leo Niessen Co., Philadelphia.

Rooted Cuttings, best varieties.
J. A. Budlong, Chicago.

Rooted Carnation Cuttings.
C. E. Dickerman, Dorchester, Mass.

The Gasser Co., Euclid Av., Cleveland, O.

Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
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Robert C. Pye, Nyack, N. Y.
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A. M. Herr, Lancaster, Pa.
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Sidney Littlefield, N. Abington, Mass.
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Nathan Smith & Son, Adrian, Mich
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H A. Stevens Co., Dedham, Mass.

H. Weber & Sons, Oakland, Md.
White Carnation, My Maryland.
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Alex. J. Guttman, 25 W. 29th St., New York.
Carnation Victory.
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Henry Eichholz, Waynesboro, Pa.
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William Swayne, Kennett Sq, Pa.
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Chicago Carnation Co., Joliet, Ill.
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CLEMATIS.
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DAHLIAS.
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FERNS.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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G. A. Sutherland Co., 34 Hawley St., Boston.
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Reed & Keller, 122 W. 25th St., New York.
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Koral Mfg. Co., 26 Hawley St., Boston.
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G. A. Sutherland Co., 34 Hawley St., Boston.
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FLOWERS BY TELEGRAPH.
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A. H. Hews & Co. Cambridge, Mass.
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Wm. J. Boas & Co., Philadelphia, Pa.
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GERANIUMS.
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Thos. DeVoy & Son, Poughkeepsie, N. Y.
Telegraph Geraniums.
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GLADIOLI.
Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.
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Rowehl & Granz, Hicksville, L. I., N. Y.
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GLAZING POINT.
H. A. Dreer Philadelphia, Pa.
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GRAPE VINES, HOTHOUSE.
R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
Strong Planting Canes, all best sorts, each $3.50
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GREENHOUSE BUILDING MATERIAL.
Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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Chicago House Wrecking Co., Chicago, Ill.
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Pierson-Sefton Co., West Side Ave., Jersey City, N. J.
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HOE, SPRING TOOTH.
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August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
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R. M. Ward & Co., New York. Plants and Bulbs.
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JAPANESE PLANTS.
Hinode Florist Co., 5th St., Woodside, N. Y
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LAWN MOWERS.
Clipper Lawn Mower Co., Dixon, Ill.
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LILIES.
Plants and Cut Blooms. Hinode Florist Co., 5th St. Woodside, N. Y.
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J. M. Thorburn & Co., New York.
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LILY OF THE VALLEY PIPS.
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J. M. Thornburn & Co., New York.
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Vaughan's Seed Store, Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in pots, $9 per doz.; 50 plants at $.60 each: 100 plants at $ 50 each; 500 plants at $ 45 each: 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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ORCHID PLANTS.
Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
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The Gasser Co., Euclid Av., Cleveland, O.

C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

ROSES GRAFTED.
Montrose Greenhouses, Montrose, Mass.
All the best varieties.
For page see List of Advertisers

SCOTT FERN.
John Scott, Keap St. Greenhouses,
Brooklyn, N. Y.
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SEEDS.
W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
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Arthur T. Boddington, 342 W. 14th St., New York
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Joseph Breck & Sons,
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36 Cortlandt St., New York.
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Conrad Appel, Darmstadt, Germany Estab. 1789. High Grade Grass, Clover, and Tree Seeds

Schlegel & Fottler Co.,
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SLUG SHOT.
Hammond's Paint & Slug Shot Works,
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STEAM TRAP.
E. Hippard Youngstown, O
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STERILIZED SHEEP MANURE.
W. Elliott & Sons, New York.
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SUMMER FLOWERING BULBS.
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J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.
Chas. Millang, 50 West 29th St., New York.
J. K. Allen, 106 W. 28th St., New York.
John J. Perkins, 115 West 30th St., New York.
James Hart, 117 West 30th St., New York.
Traendly & Schenck, 44 W 28th St, New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Young & Nugent, 42 West 28th St, New York.
Ford Bros., 111 West 30th St, New York
E. C Horan, 55 West 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.
Moore, Hentz & Nash, 55 West 26th St, New York
Jos. S. Fenrich, 48 West 30th St., New York.
Frank Millang, 55 57 W. 28th St, New York.
John Young, 51 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
W. H. Gunther, 30 West 29th St., New York.
Chas. Smith, 55-57 West 26th St., New York.
Bonnot Bros., 55-57 West 26th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, 1526 Rainstead St., Philadelphia, Pa.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia; Pa.
Philadelphia Cut Flower Co., 1516 1518 Sansom St. Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa
Fred Ehret, 1403 Fairmount Ave, Philadelphia, Pa
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
Pittsburg Florist Ex., 228 Diamond St., Pittsburg, Pa.

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The Wm. Scott Co., Corfu, N. Y.
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W. W. Edgar, Waverly, Mass.
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Moltz, 55 57 W 26th St, New York.
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NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST



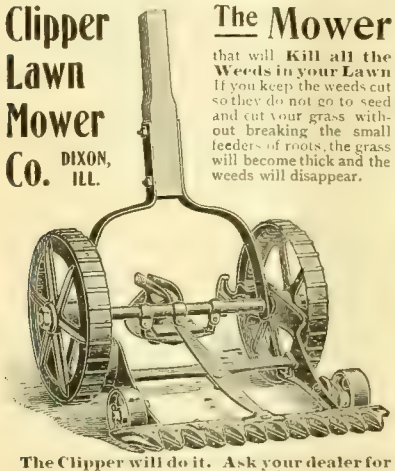
FOR SALE BY SEEDSMEN
24 sheets, 75c.; 144 sheets, $3.50; 288 sheets, $6.50
(Only 2¼c. each)
Packed in Friction-Top Tins
Preventing Loss by Evaporation
Mfd. by KENTUCKY TOBACCO PRODUCT CO.
LOUISVILLE, KY.

In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will **Kill all the Weeds in your Lawn**
If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7; No. 4—21-in. Mower, $8. Send draft, money order or registered letter.

In writing to advertisers, mention HORTICULTURE

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST
28th and M Streets, WASHINGTON, D. C.,

INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
It is too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St. Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds.

Below we list some of the more important items:

BOILER TUBES. — Two carloads of 3½- and 4-inch good Boiler Tubes that have been used. We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value. The ends have been cut square, they have been rattled and they are free from scales and imperfections. They are in long lengths. They are just what you require for extending your Heating System.

We furnish with these tubes at small cost wrought iron sleeve couplings threaded one size larger than the boiler tubes themselves. For large quantity orders we will make special low prices. At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES. — We offer for sale the three complete Greenhouses used on the Exposition Grounds Each Building, 22 × 300 ft., with all latest improvements, double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings. Sketch and full information on application. We will sell these Greenhouses singly.

HOT-BED SASH. — 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. — 20,000 Paper Flower Pots that have never been used. Low prices for quick delivery.

25,000 PLANTS. — All the Plants now stored in the Hot House are in first class condition They are being properly taken care of and consist of the following: — 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternanthera, 2,000 Echeveria, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others.

LUMBER. — 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery. We are making extremely low prices in carload lots. If you are interested, send us your carpenter's bill for our estimate.

PIPE. — 10,000,000 feet of Standard Black Wrought Iron Pipe. It has seen service only during the Exposition. Sizes range from ⅜- up to 42-inch. We can furnish you pipe of any kind. Write for complete list.

GREENHOUSE FITTINGS. — Anything needed in the line, as our stock is complete. Write us your requirements. We can furnish you valves, fittings, etc.

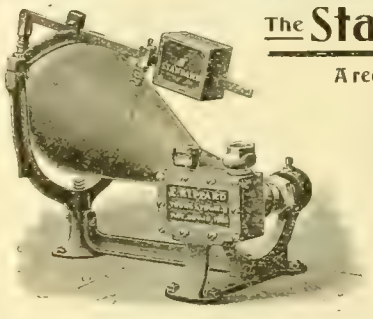
Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

CHICAGO HOUSE WRECKING CO.
35th AND IRON STS., CHICAGO — World's Fair Grounds, St. Louis, Mo.

In writing to advertisers mention HORTICULTURE

The Standard Steam Trap



A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return.

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio

In writing to advertisers, kindly mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps.*

The ANGLE LAMP is *guaranteed as represented* in every respect, or *money* refunded.

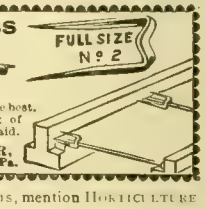
The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

GLOBE GAS LIGHT CO.
77 and 79 Union St., BOSTON, MASS.
New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

Automatic Greenhouse VENTILATORS
From $25.00 up. Send for circular.
The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



In writing to advertisers, mention HORTICULTURE

If you offer the right goods in the right way in these columns, you will not lack for customers.

LUMBER
For Greenhouse Benches
Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.
We are in a Special Position to Furnish "Pecky Cypress"
Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES
Adam Schillo Lumber Co.
Cor. Weed St. & Hawthorne, CHICAGO
Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

ILLUSTRATIONS BY THE
Hub Engraving Co.
36 COLUMBUS AVE., BOSTON
ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

GREENHOUSE GLASS

We are taking orders NOW for late Spring Delivery. We DO NOT advice DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

FOUND

A place where new and old material for the complete erection or repairing of...

GREENHOUSES

can be procured in

Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hotbed Sash, Etc.

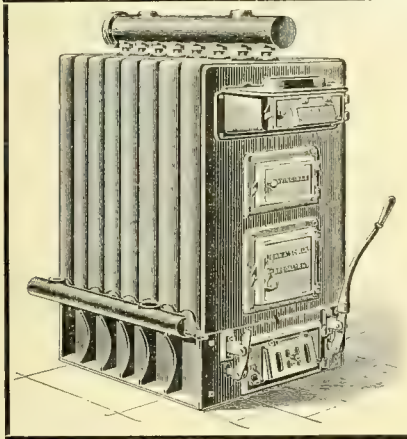
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METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Ave. BROOKLYN, N. Y.

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Dun, Bradstreet and Broadway Bank of Brooklyn

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Scollay Invincible **Boilers**

—FOR—

Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

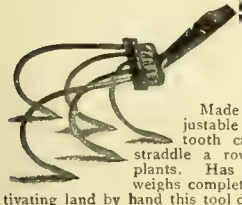
John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices

In writing to advertisers, kindly mention HORTICULTURE



SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied — ***Send $1.25 for the tool and you will get it by first express.***

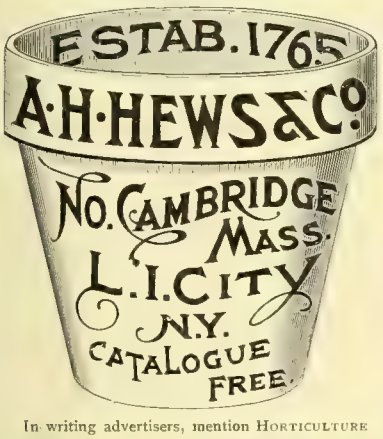
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Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
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We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

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For Steam and Water

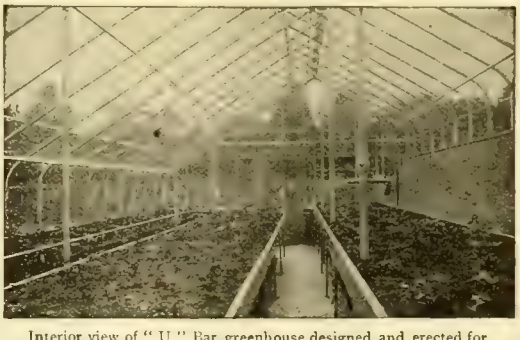
have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

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Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

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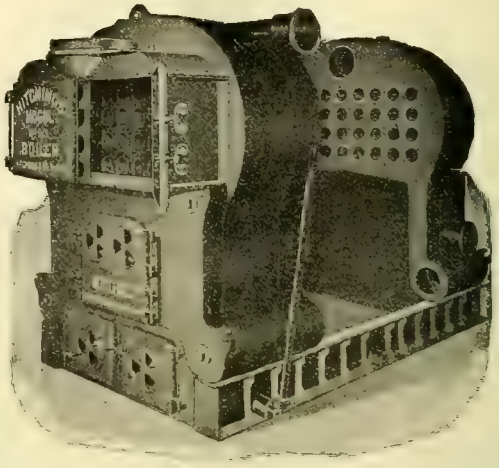
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Greenhouses, Conservatories, Rose Houses, Graperies, etc.

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HORTICULTURE

Vol. I MARCH 18, 1905 No. 16



THE FARQUHAR

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

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Own root	$ 25	per 100	Grafted	$ 30	per 100
"	55	" 250	"	70	" 250
"	100	" 500	"	130	" 500
"	200	" 1000	"	260	" 1000

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$10.00 per 100

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English-grown Stock, low budded on Manetti, now ready for delivery. Strong two-year-old plants

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HORTICULTURE

VOL. I | MARCH 18, 1905 | NO. 16

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11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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NEXT WEEK'S ISSUE WILL BE DEVOTED TO THE ROSE

LOCAL CORRESPONDENTS

BUFFALO N. Y. — E. C. Brucker.
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Chicago Carnation Co.

James Hartshorne, Mgr., Joliet, Ill.

$12.00 per 100
$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

	Per 100	Per 1000		Per 100	Per 1000
WHITE LAWSON	$6.00	$60.00	HARRY FENN	$2.00	$20.00
NELSON FISHER	6.00	60.00	GOETHE, light pink	2.00	20.00
MRS. PATTEN	6.00	60.00	GENEVIEVE LORD	1.50	15.00
ENCHANTRESS	3.50	30.00	MANLEY	3.00	25.00
PROSPERITY	2.50	20.00	MACEO	1.50	15.00
THE BELLE	6.00	60.00	CERVERA	1.50	15.00
LADY BOUNTIFUL	6.00	60.00	LAWSON	2.00	15.00

5 per cent. discount for cash with order. Send your orders early.

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52 W. 29th Street, New York City

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Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class Certificate of Merit by the American Carnation Society, Lawson Bronze Medal for 100 blooms and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1906. Price $2.50 per doz.; $12 per 100; $100 per 1000. Write us for other new and standard varieties.

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Enchantress	*3.00*	*25.00*
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READY NOW

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The Bride	5.00
Vesper	4.00
Adonis	4.00
Enchantress	3.00
Prosperity	2 00
Lawson	2.00
Mrs. E. A. Nelson	2.00
Estelle	2 00
Pres. Roosevelt	2 00
Flora Hill	1.50
Queen Louise	1 50
The Queen	1.50
Mrs. Bradt	1.50

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Chicago Carnation Co. JOLIET ILL.

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Queen	2.50	20.00
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Floriana	1.50	12.50
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The Coming Scarlet Carnation

VICTORY

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Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

A Splendid Easter or Spring Pot Plant

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Roslindale - Boston, Mass.

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AUGUSTA GLADIOLUS in Different Sizes

1st size, 2 inch and up.
2d size, 1½ inch, 1¾ inch.
3d size, 1¼ inch, 1½ inch.

WHITE & LIGHT

1st size, 1½ inch, 1¾ inch.
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Ask for prices on the different sizes; send stamps for sample.

Long Island is known all over the world for the production of the best Gladioli Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.

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Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

Bays, Palms, Orchids

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Florists' Decorative Plants

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We also offer a lot of well-grown bulbs of Calanthe Veitchii.

LAGER & HURRELL

ORCHID GROWERS & IMPORTERS

SUMMIT, N. J.

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NOVELTIES and STANDARD VARIETIES

OUR SPECIALTY

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CANNAS

Dwarf French or Crozy and Italian Sorts

THE DORMANT ROOTS we offer are large, clean, healthy pieces, containing many eyes, and will stand subdivision, and must not be classed with some small pieces of roots so often sent out by others

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F. Vaughan	**Paul Marquant**	**Burbank**
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Mme. Crozy	**Fair Persian**	**Virginia**
Italia	**Morning Star**	**Pierson's Primer**
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FOLIAGE VARIETIES.—Shenandoah, Robusta, Grand Rouge

PRICES OF DORMANT ROOTS of any of the above standard varieties: Doz. 30c., 100 $2.00, 1000 $15.00 Not less than six of one variety furnished at dozen rates: 25 at 100 rates; 250 at 1000 rates

We are headquarters for Cannas and grow upward of 25 acres, representing at least half a million roots. Besides the above, we offer other choice varieties. See catalogue. ∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴

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Begonias, Gloxinias, Tuberoses, Caladiums, Gladiolus, Dahlias, Lilies, etc.

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Clucas & Boddington Co., 512-514 Greenwich St. Corner Jane Street Telephone, 1063 Chelsea New York City

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Lachenalias

Botanists tell us that the genus Lachenalia contains about forty-two species, but to cultivators or horticulturists they may be all eliminated to six good kinds. They are natives of South Africa, principally the Cape of Good Hope, and are called Cape Cowslips. They are bulbous plants, and belong to the lily family, blossoming in late winter or early spring in the cool greenhouse.

They have been favorites with me since away back in the '80's, when in Kew, I had, under the direction of Mr. John Garrett, collaborator with Nicholson in his great work "The Dictionary of Gardening," a splendid lot of Lachenalia tricolor to look after. There in Kew we grew them in a cold frame all winter with only a mat to protect them from the cold. The secret in growing this kind of plants is to keep them cool, and give them as little fire heat as possible. In fact, this holds good with most plants coming from the Cape of Good Hope.

The cultivation of these beautiful little plants is very simple, and they can be grown either by the professional or amateur with the greatest of ease. As an illustration of this, the first and best hybrid, Lachenalia Nelsoni, was raised by a clergyman in his window. Lachenalias have to be potted every year, and early in August is the best time. We have had the best results by using shallow, six-inch pans. Good drainage is necessary, and the compost consists of two parts loam and one of leaf mould, with a dash of sand and a little sheep manure. In a six-inch pan we usually plant nine or ten bulbs, covering them with about half an inch of soil. After this the plants are given a good watering and placed in a cool frame with a shutter over them. No water is given again until they start to grow and then they can be given all the light necessary. They are left in the cold frame until danger of frost, when they are removed to a cool greenhouse, where the temperature runs from 40 to 50 degrees Fahrenheit. Plenty of light and air is advisable at all times to secure a sturdy growth. As soon as the flower spikes appear, a little artificial manure may be given. Clay's Fertilizer is good.

As to the lasting qualities of the flowers, outside of some orchids, I know of none better. Two to three months is no uncommon time for the flowers to last. The batch of plants of L. Nelsoni that I exhibited at the Massachusetts Horticultural Hall on Saturday, February 11th, was in bloom two weeks before Christmas.

No doubt but this plant would make an excellent novelty for florists at Christmas, but the bulbs are expensive, costing from twelve to fifteen cents each. It is very strange they are so expensive, because they increase more rapidly than freezias and are just as easy to grow.

The two kinds that are most popular are Lachenalia tricolor and Lachenalia Nelsoni.



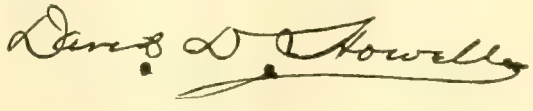
Harvard Botanic Garden, Cambridge, Mass.

Cineraria Stellata as a Florist's Flower

Quite a novel feature in decorative groups was exhibited in the window of A. W. Smith, Pittsburg, Pa., during the latter part of last week, a large assortment of Cineraria stellata being on exhibition. The numerous varieties of this flower seem to be the offspring, by various crosses, of C. malvafolia, lanata, populifolia, and probably some others. This class of cinerarias has been grown quite extensively by Mr. Smith the past winter, one entire house being devoted to their culture. He uses them both for decorations and cut flower. An immense pyramid of Lilium longifolium rises on the side of one of his windows; at the summit of the pyramid is a towering specimen of cineraria stellata, and between the lilies are arranged many colored plants of cinerarias, which gives a charming effect, and commands the admiration of all passers by.

These plants can also be used successfully by knocking four or five out of pots and bunching them together in a jardinere, either as one color, or mixed, which are equally pretty and useful. If grown in 5- or 6-inch pots in a temperature of 40 to 45 degrees, allowed to become pot-bound, and kept well watered, they will stand a lot of knocking around, and can be used in decorations two and three times. They are also very useful for cut flower purposes, lasting as long as some carnations. The white varieties are a valuable acquisition for funeral work, especially when mixed with lilies. Used in this way, they are quite as pretty as the combination of lily of the valley and Primula Forbesii.

Some varieties attain a height of five feet and over. These are used to advantage among tall palms and give life to the monotony of so much green. Cineraria stellata is taking its rank as a useful commercial plant — as is Primula obconica over Sinensis — and is destined to play a prominent part in the future of decorations.



Dahlias

Although the dahlia has been in cultivation in this country for many years, it has probably never been so popular as it is now. Its present wave of popularity started in England a few years ago, when some of those charming varieties of the cactus class which we have now, were produced, and like many other extra good things, they soon found their way into American gardens, where the work of improving was continued, with the result that we have now an almost endless number of varieties that are far superior to anything we had about ten years ago. And many very large collections have been grown in different parts of the country the last few years, especially in Newport, R. I., where they have been in great demand for table decorations. Solid colors of white, pink, yellow, and red being, of course, most in demand, with the "Catherine Duer" well in the lead as a red. This was raised in Newport by William Allen, gardener at the Travers place. It is a decorative dahlia of a very pleasing shade of red, with long stiff stems, and is an excellent keeper, which makes it very valuable for "making up," although it is not so graceful in form as many of the cactus class.

The cultivation of the dahlia is very simple, and with their wide range of height and color, and long season of flowering, are very good subjects for decorating grounds in many different situations; but when extra good flowers are wanted, they need a good deal of attention, and I would advise the following system of cultivation:

Select an open, sunny situation. Manure the ground well, and spade in deep. Use strong plants from spring cuttings, or small old roots. Plant not earlier than June 1st in rows 3½ feet apart and 4 feet between the rows. Allow only one shoot to grow up from the root and pinch when about one foot high, so that three or four strong branches will come from near the ground. Tie each separately around the stake, cut out all weak, or unnecessary shoots as they come, so as to prevent from growing into large bushes and exhausting themselves. Disbud, leaving strongest one only to each stem. Keep all old flowers cut off. Stir up the ground often with a spading fork, but not deeply after roots come near the surface, and when they show signs of hunger by their foliage turning lighter in color, give liberal doses of liquid manure about once a week. A sprinkling of bone meal worked lightly into the surface of ground is also good. Water thoroughly when dry. Keep a sharp outlook for enemies, and destroy them as soon as possible.

Any varieties which cuttings are wanted from should be started now without delay; a greenhouse is the most satisfactory place for this. The roots should be put in shallow boxes, and covered with any light kind of soil and placed in a sunny position — not under a bench, where they are too often found — and with a temperature of about 60 degrees, the shoots will be about two inches long and ready for cuttings in about four weeks. The strongest only should be taken and put in an ordinary propagating bench, where many of the varieties will root in ten to twelve days. Others take three to five weeks. They should be potted in small pots and kept growing till well established, then old stools and plants removed to a cooler place and water gradually withheld to check growth till planting time. Propagation by seed is also very satisfactory and fascinating, especially with the famous Luther Burbank seeds, with which a large percentage of excellent varieties may be depended on. If seeds are started by March 1st, many of them will flower early in summer.

Good clear white and pink varieties in the cactus class are still rather scarce. Among the best in white are, Winsome, Lord Roberts, and Keyne's White, and I consider Kriemhilde the best pink I have seen. Good yellows are John H. Roach, Hobbie's Yellow, Jealousy, Volka, and Mrs. Charles Turner, which is considered by some growers to be of decorative type, but is certainly a true cactus when in its best and true form, and the reason it sometimes comes in irregular forms is probably caused by excessive propagation. Then among the best reds I have seen are Galliard, Mars, Hunold, Porcupine, Strahlein Krone, Mrs. Bennett, Uhland, Gloriosa, Progenitor, Captain Broad, and Imperator.

There are many excellent varieties in other colors. Some of them are Beatrice, Britannia, Countess of Lonsdale, Earl of Pembroke, Lady Edmund Talbot, Berenice, Lovely Eynsford, and Village Maid.

There are also many good varieties for cutting purposes in the single, the decorative, and the show classes, especially in the singles, since we have got several varieties of the 20th century type.

James Robertson

Roses! Roses! Roses!

Next week at Horticultural Hall, Boston, will be displayed the most remarkable exhibition of roses ever seen in this country. Rose growers, rose buyers, and rose lovers generally will attend. HORTICULTURE honors the occasion with a rose issue for that week. Everybody will read it. If you are looking for business with the rose people, advertise in this issue of HORTICULTURE. Mail copy at once, *otherwise you're too late!*

If you have orders to give for any flowers, plants, or horticultural material of any kind, do not fail to give HORTICULTURE's advertisers a chance. The best houses are represented in our advertising columns.

South American Horticulture

III. SAO PAULO

It was on the first carnival day, in February, 1903, that I got on the Sao Paulo train at the Santos depot. A heavy thunder-shower was floating down on Santos, and odd enough the dominoes and clowns looked, as they dodged into doorways, coffee-houses, and street cars, with shouts and tin horns. Still intoxicated with the beauties of Santos harbor, I felt this farewell, amid a big masquerade scene, under palm archways and thousands of paper flags and lanterns, as a beginning of the second act in a continuous "dulce jubilo," in which the land seemed to enjoy its deliverance from all revolutionary outburst of passions. In fact, the whole scenery of the mountains, railroad station, train, and all, I might easily have imagined as belonging to the general carnival temples and decorations. But I had been warned, and told in Santos, that I was going through the clouds on this cable train, and, no matter how bright and sunny it was in that city, it would be foggy and rainy on the mountains. Sure enough, so it was, on all three times that I went over the road: sunshine on both ends, and rain and clouds on passing the summit of the mountains, which forms the edge of the high plains of the state Sao Paulo.

By the time we had left the level shores and entered the first cañon of the mountains, the thunderstorm of the afternoon had entirely cleared away, and behind us Santos and its surrounding harbor and islands had perfect summer weather; but no sooner had we been pulled up several miles by the combined cable and steam engines, when fogs and clouds descended, and we could hear the dropping of water on the car-tops. Sometimes it would for a few minutes clear off, and we had below and overhead the view of grand mountain walls of bare granite or steep slopes descending in an angle of 70 to 80 degrees to the wheels of the cars, covered with palms, ficus, oleos, and other tropical trees to the very top, only leaving space and spot, where it was impossible for any vegetation on blank, bare rock, to start. From most every mountain side you see a creek — *riveron* — shooting its waters 50 to 100 feet into the valley below, where palms and ferns and water-plants border the basin, which the constant fall of water has scooped out. How they ever built the railroad through this weather-hole, or how it can be kept intact, when a tropical thunder-shower swamps the cañons, I didn't try to think out. Enough that we got up and the other train, — the counterweight on the cable, — got down safely. In another hour's ride we were in Sao Paulo.

As soon as the train stopped in the new big depot, I entered the main entrance of the park, which is located just beyond the tracks, where a sign tells you that you can't get in unless you wear decent clothes and shining boots. I strolled in and had a look around among the palms and the flower-beds, went through the half-shaded rock scenery, and stood at the side of the artificial pond, where curious tropical birds stalk around, or stand on one leg.

The thing which impressed me most at the time was the general neatness of the whole grounds. The walks were covered with very fine colored gravel, black and white, perfectly smooth and clean, as if brushed by a handbrush; not a water-hole, not a rain-gutter to be seen; not a single piece of paper or a piece of a twig, or a faded flower-petal in sight. There was not a weed, not a broken plant, or bush waiting for the next day's clean-up. There weren't so many employees around as to be conspicuous. This latter fact was perhaps due to the climate, which requires, on account of its rapid-producing qualities, very little filling in of plantations. Furthermore, I believe it due in part to the absence of cold, sweeping rain- and hail-storms. During the entire twelve months I stayed in Brazil I never experienced a rain-storm with cold winds, nor a hail-storm. True, the tropical rains are heavy, but tropical trees have mostly thick foliage, especially adapted to withstand them, and also to shelter the more tender plants beneath. Either the winds, for some geographical or astronomical cause, lack velocity in the sub-equatorial zones in Brazil, or it may be due to the immense, all-covering forests, which give a general shelter to the valleys along the rivers; certain is it, that rain-storms come from straight overhead, as if out of an immense douche, and are never driven by furious winds across country.

On the following day I went to see Mr. A. W. Dietsch in his flower-store on rua de Sao Bento. Mr. Dietsch is a German by birth and gets his seeds, bulbs, and fertilizers from his native country, trading, in exchange, orchids which he has gathered by local woodsmen. The seed business is becoming of growing interest; all seeds not of tropical plants, for flowers as well as vegetables, are imported to Brazil. As yet nobody has been successful in growing to maturity seed-crops of northern plants in the tropics or subtropics. Of orchids, the lælias and cattleyas were in excellent condition for shipment, which was made in the usual large wooden cases, holding several hundred each, with big air-holes cut in all sides, as leaving no space larger than half a foot square unventilated; the packing consisted of dry moss. There is no fixed price in Sao Paulo on wild orchids, the gatherers simply coming in with a load to the stores or nurseries of the florists and bargaining for the same, the value being according to variety and quantity of plants, the largest number bringing the highest prices, while small lots are hard to sell.

Carnival at this time was at its height, and the flower-stores were busy, as many private picnics and excursions took place. The main resources of the florist for decorations and bouquet work were dahlias — cactus variety — and camelias, while the chrysanthemums were just budding into fair-sized buttons, and roses were not plentiful after the two warmest months of mid-summer. For greens were used mostly Asparagus Sprengeri.

The nursery of Mr. Dietsch was situated in the suburb heights, south of the city. The soil is a very mellow red loam, similar to that in parts around the bay of San Francisco, Cal. The soil would get, during the day, as warm as a hot-bed, yet I was told by experienced gardeners that it would never burn any plants, making it, however, necessary to have all watering done by half past eight A.M., or after sundown. Tea roses and chrysanthemums were grown, as if under glass, with average results. Cosmos gave good results as a new introduction in that country, sowing itself again from a few stalks left after the main crop of flowers had been picked, thereby making it only necessary to pull out the big stalks, rake the bed over and thin out, where the self-sown seed had dropped too heavy.

Gerhard Kleicken.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The Queen of Flowers holds a reception at Boston next week. Come, one and all, Don't miss it.

Why is rose Killarney not grown more generally? In those markets where this handsome light pink bud is regularly in stock, it is a favorite and is worthy of being such.

Our frontispiece this week shows part of a flower cluster of the Farquhar rose. No American rose of recent introduction has received a greater welcome, or given better satisfaction in the garden, or for spring forcing than this splendid climber, the product of Jackson Dawson's genius. In this section it is well established as a standard variety.

The annual spring exhibition of the Massachusetts Horticultural Society, with its gorgeous display of spring-flowering bulbs, cyclamens, orchids, carnations, forced shrubs, and hard-wooded greenhouse plants, is always a notable affair, and always well worth seeing. This year, in connection with the American Rose Society's exhibition added to it, this event should, and doubtless will, draw an immense attendance of visitors from far and near.

Our reports from the leading cut-flower markets indicate that the heavy spring over-production is on in earnest, and that for the next few weeks the dealers' ever-present problem will be, not what prices he can get, but how to unload at any price. Over-production at certain times is unavoidable, and its effect on the market is not pleasant. Anything that will tend to minimize it should have the united support of growers, dealers, and reputable retailers. A scrutiny of the markets reveals the fact that the same proportion of low-grade material is being received as in periods of scarcity. Why not discard this stuff before shipping? It is bound to be a loss anyhow, and its presence in the market necessarily affects values on all qualities, encourages the speculative street buyer to assume the offensive, and to assail successfully established values. Cut out the scrubs.

Once in a while we are called upon to listen to a story of competition — competition which, in the eye of the aggrieved one, is of course always ruinous and unfair. Yet, with all its irritations, business rivalry is not without its benefits. It may disconcert us for a time, but it is a wonderful eye-opener, bringing us to a realization of our dormant abilities, and developing resources which otherwise would never have been drawn upon. It sharpens our intellect and quickens our activities. The very suggestion of a lower market value on any article we produce throws us into a spasm, but after we have put our wits to work to meet the situation, we find that we are still a long way from "going to the poor house."

Is bulbous stock, so-called, as forced for the cut-flower trade, unprofitable? The forcers tell us that it is and from our knowledge of the first cost of the bulbs, the possible shrinkages in forcing, and the expense of forcing and marketing as compared with the wholesale market values, we cannot see how the growers can come to any conclusion other than that the business is an unprofitable one. Some varieties there are, of tulips, daffodils, etc., which can usually be depended upon to yield a fair return on their cost, but, of late years, these would seem to be the exception. Were these sturdy blossoms left out of the regular market offerings, however, we should miss them sadly, yet it is not to be expected that growers will continue to devote their time, money, and effort year after year to an unremunerative specialty. How can the first cost be reduced, or the market value raised? One or the other would seem to be in order.

The Spring Feeling

We are told by a native of the green isle that on St. Patrick's Day the warm side of the stones turns up. The time will be opportune for our readers, under the genial influences of approaching spring, to turn the warm side of their hearts to the advertisers in this issue of HORTICULTURE. Please look over the Buyers' Index, and see what is offered there that you should have. Then write at once to the advertiser and say you did it on HORTICULTURE's advice. The advantage will be mutual and HORTICULTURE *will continue to grow.*

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Many claim that the time is approaching when the carnation grower will cultivate largely the varieties of his own origination, and there is much to be said in favor. If one hybridizes a flower and watches it carefully as it matures its seed, plants the seed and observes it until it blooms, he cannot but become acquainted with its peculiar requirements and be better able to grow it intelligently and profitably. On the other hand, he reads of a new variety just about to be introduced elsewhere. Possibly he sees it growing and likes its habit or general appearance, and orders a thousand or so at fancy figures. In his estimation it is a good investment. But when he tries it for himself and makes a study of its habits, it is often a whole season or more before he can decide whether there is any money in it or if it is one more gold brick. Donald Carmichael of Wellesley has a seedling which he designates the "Scarlet Gem." It is a cross between Red Bradt or Chicago, as seed parent, and another scarlet seedling. The flowers are not of the largest size, but its free blooming and quick developing qualities make it the greatest money-maker Mr. Carmichael ever grew. From about 500 plants he has cut, on an average, of over a thousand a month since October. Mr. Carmichael has also a fine white seedling from Prosperity, as seed parent, crossed with another white seedling. It has many of the habits of the seed bearer, but blooms much earlier. Another of Mr. Carmichael's seedlings of great promise is a light pink from Lawson crossed with a pink seedling. It is designated as No. 2093.

J. W. Foote, Malden, has a large white seedling which he calls No. 6. It is a cross from Fair Maid and a white seedling, Fair Maid being the seed bearer. Mr. Foote describes it as being very large and free and a fine keeper and shipper.

George Ayer of Reading has a crimson under cultivation which promises well. The seed bearer, Roosevelt, is crossed with a yellow seedling. It is a shade lighter than Harry Fenn, very free and does not split.

C. E. Dickerman of Dorchester has several seedlings of merit. One, a white, designated as No. 9, is a cross between Prosperity, as parent plant, and Apollo. It is a clean, vigorous grower, and a bursted calyx is yet to be seen. Another is a fine yellow, a cross between Lawson and Crane, Lawson being the parent.

John McFarland is bringing to the market some exceptionally fine Ulrich Brunner roses. Mr. McFarland was first in the field this season with this variety, having been cutting for the past three weeks at prices ranging from twenty-five to fifty dollars per hundred.

STATE FLOWERS

Here is some late information on the subject of State flowers. The following have been settled by a vote of the schools: Alabama has chosen the goldenrod, Arizona the cactus, California the California poppy, Colorado the purple columbine, Delaware the peach blossom, Florida the japonica, Georgia the Cherokee rose, Idaho the syringa, Illinois the rose, Indiana the corn, Iowa the wild rose, Michigan the apple blossom, Minnesota the moccasin, Mississippi the magnolia, Missouri the goldenrod, Montana the bitter root, Navada the sage brush, New Jersey the sugar maple, New Mexico the crimson rambler rose, New York the rose, North Carolina the chrysanthemum, North Dakota the goldenrod, Oklahoma the mistletoe, Oregon the Oregon grape, Rhode Island the violet, and Utah the sego lily. The State Legislatures have adopted flowers for the following States: Arkansas the apple blossom, California the golden poppy, Florida the orange blossom, Louisiana the magnolia, Maine the pine cone, New Hampshire the oak branch, Nebraska the goldenrod, Ohio the carnation, Oklahoma the mistletoe, South Dakota the anemone, Texas the blue bonnet, Vermont the red clover. In Kansas the sunflower is known as the State flower, and the women's clubs of Washington have adopted the rhododendron. Now that some of the Legislatures have adopted the flower voted for by the children, it is likely the other Legislatures will do the same. — *Boston Transcript.*

THE WAY TO DO IT

The city of Marlboro has taken the brown-tail moth nuisance by the horns — if such a mixed figure will be permitted us — by declaring the "critter" a menace to health and sending out a notice which reads: "All owners of trees and shrubbery shall keep the same free and clear of all moths and their nests. If the above nuisance exists on your premises you are hereby ordered to remove the same on or before March 13. Should you fail to do so, this board will proceed to act under chap. 75, sec. 67, of the revised laws of Massachusetts."

That is business-like and praiseworthy. People can rid themselves and the community of a pest of this sort if each will attend to his own particular domain. Those who are too lazy to do the work themselves or too mean to hire it done, should be given a taste of the $20 per day fine for permitting nuisances to exist on their premises. We shall watch the Marlboro crusade with interest. — *Boston Journal.*

PLEASE APPRECIATE

A special advantage given to advertisers in HORTICULTURE, *without charge*, is the Buyers' Directory which tabulates the advertisers in each issue of the paper under the respective heading of the goods offered. This is a convenient ready reference for buyers and its value to advertisers is obvious, being in fact a *double* announcement without extra cost.

Personal

J. M. Keller and Julius Roehrs have returned in good order to New York from their Cuban trip.

A. Dimmock was due to arrive in New York, Saturday, the 18th inst. on the Lucania, fully equipped for Sander's spring campaign.

We learn that the Lucania was obliged to put back into Queenstown for repairs and will be several days late in consequence.

Mrs. T. O. Richardson, who has been absent from Newport for two years, will occupy her beautiful place on the Cliffs this summer. Mrs. Richardson is an enthusiast in horticulture. Besides taking a great interest in her own estate, she was a liberal contributor to the Newport Horticultural Society.

On Wednesday evening March 15, occurred the wedding of James McHutchison of New York, to Miss Grace Elizabeth Edgar, at the home of the bride's parents at Waverly, Mass. There was a large attendance of friends of the happy couple, whose esteem for both bride and groom was evinced in a glittering array of beautiful presents. May the spirit of happiness and geniality that prevailed on this joyous evening continue with Mr. and Mrs. McHutchison through a long, fruitful, and prosperous home life.

TWO NEW WINTER-FLOWERING BEGONIAS

Translated by G. Bleicken.

Begonia gigantea elegans is a cross of B. Sharffiana and Pintaviensis, resembling the first in habit, being strong and bushy, with large leaves, dark-red underneath and strongly haired, upper side olive green with thickly white haired, leaves, and flower-stems alsoh airy. The flower stalks rise above the foliage, branching in two above, the umbel being bell-shaped. The flowers are white, red-haired underneath, making a charming color contrast.

Begonia Credueri compacta robusta is a cross between B. Scharffiana and metallica; it is a dwarf begonia and on this account to be recommended. The originator is Mr. E. Benary, Erfurt, Germany. — *Die Gartenwelt.*

OBITUARY

Mrs. Coolidge, mother of the Coolidge brothers of South Sudbury, Mass., died on March 8.

Charles T. Siebert of Pittsburg, once proud of the title of "the restless and sleepless florist" has at last come to rest and sleep, after a long illness, on March 7, at the age of 53 years. Mr. Siebert was a favorite with the members of the profession and a loyal supporter of the local club and the Society of American Florists. A widow and three children survive him.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY

Boston Exhibition, March 23, 1905.

Intending exhibitors are respectfully notified that the judges have been instructed by the executive commitee that they must adhere to a strict literal interpretation of the schedule. The staging of one flower over or under the number called for, or the placing of an H. T. in an H. P. class, or the reverse, will positively disqualify the entry. *So Please Be Careful.*

President Montgomery has appointed the following named gentlemen to act as judges of the exhibits entered for the society's regular and special premiums. W. F. Sheridan of New York City, Peter Crowe, Utica, N. Y., J. F. Huss, Hartford, Conn. All of these gentlemen have accepted.

The office of the secretary on Thursday, Friday, and Saturday, March 23, 24, and 25, will be in Horticultural Hall, Boston, where members may pay their dues and, after signing the members' registry book, be provided with tickets for the banquet to be given by the Horticultural Interests of Boston to the American Rose Society, on Friday evening, March 24, at the Thorndike Hotel.

The annual meeting of the American Rose Society will be held at Horticultural Hall, Boston, on Friday, March 24, at 11 A.M.

An additional special prize is offered for award at the Boston exhibition, March 23 to 26, by A. H. Hews & Co., Incorporated, North Cambridge, Mass., of a silver cup, value $25, for the best specimen pot-grown rose in the exhibition, ramblers and climbers excluded.

Wm. J. Stewart,
Secretary.

TO ROSE SOCIETY VISITORS

The new Horticultural Hall, Boston, where the meeting and exhibition will take place is situated in the Back Bay district, corner of Huntington and Massachusetts Avenues. Visitors coming over the N. Y. N. H. & H. R. R. and wishing to go direct to Horticultural Hall should leave the train at Back Bay station, walk north a short distance on Dartmouth Street to Huntington Avenue, and take a car going west. All Huntington Avenue cars pass Horticultural Hall. The corresponding station on the B. & A. or N Y. Central R. R. is known as Huntington Avenue and the same directions apply.

All elevated trains for subway connect in the subway at Park Street or Boylston Street station, with Huntington Avenue cars. Hotels conveniently reached from Horticultural Hall are the Lenox, Copley Square, Brunswick, Victoria, Vendome, and Thorndike.

Visitors may have their mail addressed in care of Horticulture, 11 Hamilton place, and arrangements will be made for its prompt delivery.

BUFFALO FLORISTS' CLUB

The regular meeting of the Buffalo Florists' Club will be held on Tuesday evening, March 21. An entertainment and banquet will follow and a general good time is expected.

CHICAGO FLORIST CLUB

The smoker of the Chicago Florist Club on March 9, was a great success. About forty members were present. Messrs. Amling and Howard of the entertainment committee are to be congratulated on their success. Des Plaines, High Ridge, Joliet, Blue Island and Rose Hill were represented. Previous to the entertainment a short business session was held and action was taken on the Easter plant exhibition to be held March 23. Also great enthusiasm was awakened over the prospects of the Illinois State Florists' Association, many club members joining the new association. There was music and song galore. Master of Fun Rudd is warranted to cure the blues. Johnny Degnan's "Loidy" was a hit. The Balluff Brothers songs were good, and the old rusty Chicago Florist Club quartette opened a new field for the implement men. (Apologies to Asmus, Winterson, Degnan and Balluff.) Altogether a pleasant evening was spent, and it closed with a hope for another.

On exhibition by A. Frey of Lincoln Park were some magnificent hybrids of Cineraria stellata. The Chicgao Carnation Company sent a fine vase of White Lawson, also one of Cardinal. The committee on exhibits reported as follows: Your committee have examined the exhibit of Cineraria plants grown by A. Frey and find them well-grown specimens of a cross between Cineraria stellata and Cineraria hybrida. The plants while not producing such large flowers as hybrida type partake of the slim branching character of the stellata, thus forming a happy medium. We consider these plants meritorious and worthy of honorable mention. We beg leave to report on the two vases of carnations exhibited by the Chicago Carnation Company that the White Lawson flowers are borne on good long stems of a stiff character, the color pure white and beautiful in every respect; the Cardinal vase is equally fine and worthy of honorable mention.

E. A. Kanst,
W. H. Kidwell,
A. H. Schneider,
} *Committee.*

FLORISTS' CLUB OF WASHINGTON

At the annual meeting of this organization last week officers were elected as follows: President, W. F. Gude; vice-president, Charles Henlock; secretary, Peter Bisset; treasurer, W. H. Ernest. The club presented secretary Bisset with a handsome silver bread-plate in recognition of his valuable services to the organization. S. A. F. matters were discussed. A very fine exhibition of carnations was made by local and distant growers. F. R. Pierson Co., Tarrytown, N. Y.; J. N. May, Summit, N. J.; J. L. Dillon, Bloomsbury, Pa.; H. Weber & Sons, Oakland, Md.; Guttman & Weber, New York; W. J. Palmer & Son, Buffalo; A. B. Davis & Son, Purcellville, Va.; J. E. Haines, Bethlehem, Pa.; Cottage Gardens Co., Queens, N. Y. J. R. Freeman and F. H. Kramer were among the prominent exhibitors.

NEW YORK FLORISTS' CLUB

The meeting on Monday evening, March 13, was attended by sixty enthusiastic members, and the paper presented by Robert Kift was enjoyed exceedingly. The following inquiries taken from the question-box were assigned to the next meeting:—

"What is the most valuable plant introduced in the memory of any member of the club?"

"Why are carnation growers more progressive than rose growers?"

"Is horticulture in the United States as far advanced as in Europe?"

Resolutions were read on the death of the mother of H. Hentz, Jr.

New rules governing the exhibition management were adopted. The expected rose show did not materialize to any great extent. There were on exhibition, La Detroit rose and antirrhinums from J. Breitmeyer's Sons, a new rose from Peter Bisset, White and Varigated Lawson and Daheim, also Killarney rose, from F. R. Pierson Co., and the Scott Fern from John Scott. The house committee again did nobly, and supplemented their usual attentions with choice ballads well rendered by J. B. Nugent and Alfred Bunyard.

KENTUCKY SOCIETY OF FLORISTS

The carnation and rose meeting held Tuesday night at the store of Nanz & Neuner was a very successful one. Those favoring us with exhibits were the Chicago Carnation Co., Joliet, Ill., a very large and fine exhibit of the Cardinal, Lady Bountiful, Enchantress, White Lawson, Mrs. M. A. Patten, Harlowarden and other favorites. The J. D. Thompson Carnation Co. showed some very good Robert Craig, also Enchantress, Mrs. M. A. Patten, The Belle, and Nelson Fisher. John E. Haines, Bethlehem, Pa., showed Mrs. John E. Haines, which promises to be a very good one, also the Star of Bethlehem. Davis Bros. Co., Bloomsburg, Pa., showed the Crisis and Mary Albert. A. Rasmussen, New Albany, Ind., Mrs. Lawson, Enchantress, and Hoosier Maid. The Indianapolis Flower & Plant Co. and John Hartje, Indianapolis, showed Candace. Baur & Smith, Indianapolis, showed Indianapolis and Flambeaut The Bride, last year's success, was exhibited by John N. May, Summit, N. J., and Red Lawson by W. J. Palmer & Son, Lancaster, N. Y. H. Weber & Sons, Oakland, Md., showed My Maryland. R. Witterstaetter, Cincinnati, O., sent the Aristocrat and Afterglow. Patten & Co., Tewksbury, Mass., showed Mikado and Pink Patten; and another shipment from a distance that arrived in good condition was that of the F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., consisting of Variegated Lawson, White Lawson, Daheim, and Victory. Charles W. Rayner, Anchorage, Ky., showed Bride, Bridesmaid, Ivory, and Golden Gate roses. John Breitmeyer's Sons, Detroit, Mich., sent

La Detroits, also some of their fine Antirrhinums in three colors. Peter Reinberg, Chicago, Ill., showed Uncle John and Sunrise, and Jacob Schulz staged a lot of good seedlings. Nanz & Neuner showed some good stock of many varieties, as did also Charles W. Reimers and Leo. Zoeller. It was a show worth seeing.

MASSACHUSETTS HORTICULTURAL SOCIETY

The garden committee of the Massachusetts Horticultural Society and other guests visited the conservatories of George F. Fabyan in Brookline, on Tuesday, March 7. Here were seen the products of George Stuart who has had charge of this estate since its acquirement by Mr. Fabyan four years ago. The conservatories are really but one long house separated into four compartments, erected by Hitchings & Co. One can scarcely believe it possible that the superb exhibits of cyclamens, cinerarias, calceolarias, etc., that have so astonished visitors to the Boston exhibitions have all come from an establishment so limited in capacity. A visit to the conservatories only adds to the admiration for a gardener who can accomplish so much with such a variety of plants requiring diverse treatment as are here seen under one roof. The collection is very varied and comprehensive and everything in perfect health. Among the things calling for especial comment on this occasion is the Wootton rose which, with glorious blooms, five inches across, and two-foot stems, would scarcely be recognized by its originator, the rosarian of Baltimore.

NEWPORT HORTICULTURAL SOCIETY

Fortune smiles on the Newport Horticultural Society. Three years ago one of the best exhibitions ever given by this society was held in the Casino, but although successful in nearly every particular, the cost was so great that since then the society's exhibitions have been held elsewhere.

This year, however, a strong feeling was manifested in favor of the Casino for at least the mid-summer show, and a committee was appointed to ascertain what arrangements could be made. The result of their effort is that the members have been informed by superintendent Barrett that the governors of the Casino will gladly let the Newport Horticultural Society have the use of the Casino for all the exhibitions free of expense, the only conditions imposed being that every member of the society unite in an effort to make the exhibitions worthy of the Casino and of Newport. The full significance of this liberality can be appreciated only when it is stated that the Casino on a former occasion cost $100, in addition to half the gross receipts.

The executive committee have completed the schedule of premiums for this year. They are the most liberal and comprehensive ever issued by this society. Upwards of one thousand dollars will be offered in prizes, exclusive of specials which may come in from now until September 1. Every possible effort is being made to make this year's exhibitions record breakers, and with a view to this end all petty restrictions of former years have been wiped out, the society hoping thereby to receive many consignments of exhibits from out of town growers, commercial as well as private. Nothing pleases the gardeners better nowadays than to have the up to date florist show what can be done in special lines, and the florist will not likely be the loser if he brings a sample of what he grows to show to the people of Newport.

AMERICAN CARNATION SOCIETY

Registered by the Lakeview Rose Gardens, Jamestown, N. Y. "Gladys," a fine white with blooms three inches and over and stem twenty to thirty inches in length. It has never been off crop this season and has scored 87 points at the Buffalo Florists' Club on February 22.

Albert M. Herr, *Secretary.*

REGISTER YOUR NEW PLANTS

As soon as you have ascertained that a seedling has the requisite merit to entitle it to a permanent existence, and have given it a name, register name and description with the secretary of the national society. The record will then be published and your plant will be protected in its right to the exclusive use of the name you have bestowed on it. For registration blanks and all information write to the secretary,

Wm. J. Stewart,
11 Hamilton Place, Boston.

NEW FANCY-LEAVED BEGONIA HYBRIDS

(From Moller's Garten Zeitung)

Translated by G. Bleicken.

Our Queen, His Majesty Mrs. H. G. Moon — these three new begonias are the result of crossing Begonia Bowringiana and diverse Begonia Rex hybrids by Sander & Sons, Bruges and St. Albans, England. Begonia Bowringiana comes from northern China, seemingly a variety of Begonia laciniata in Nepal and Upper Burmah. This plant is related somewhat to Begonia Rex, but differs from it by its strong tendency to branch, its greater height and profusion of orange-yellow blossoms. The upper side of the leaves is moss green, interrupted by velvet purple-red veins, through which runs a soft, silvery-green middle zone. The underside and the stems are covered with purple-red hairs. Sander & Sons offer the above-mentioned three hybrids, each of which got an award of merit recently in London. The progeny have retained the superior branching habit of B. Bowringiana, thus surpassing the old Begonia Rex varieties.

Our Queen, of which B. Bowringiana is the mother plant, has leaves much more pointed than the parent. Color, dark, velvety olive green, and, between center and edge, a lighter zone, which is dotted with pink and silver spots.

His Majesty, of which Begonia Rex is the mother plant, approaches more nearly the Rex color, lilac-rose and olive green, toning into brown towards the center. The color is darkest in the proximity of the foliage nerves and on the edges.

Mrs. H. G. Moon comes from similar crossing as the last named. The color is dark olive green, running into brown; the intermediate zone is slate colored, with very bright red spots.

By the use of this new Begonia Bowringiana, a very desirable blood renewal has been introduced into the fancy-leaved begonias.

HARDY FLOWER CULTURE

A. Herrington of Madison, N. J., was the speaker on February 4th at the usual weekly lecture of the Massachusetts Horticultural Society. His subject was "Some Aspects of Hardy Flower Culture," and he spoke in part as follows:

"Notwithstanding all that has been written in the past about style and design, there is no garden so beautiful as that untrammeled by the application of needless geometry to its plan and planting. A certain formality may be necessary and right about the house, but those who tell us the garden as a whole should be a thing of formal design are enemies to true gardening. They are perhaps not so through wilful intention, but from lack of knowledge or inability to see and appreciate how their much-vaunted formality circumscribes or prohibits the possibility of good gardening by limiting us to the use of a few forms and types of vegetation adapted to the formal scheme.

"Hence, the floral poverty and meagr beauty of too many so-called gardens, wherein no place can be found for the planting of those beautiful flowers that tell the story of the year from the moment the frost relinquishes its grip of the earth till the time when vegetation again goes to its winter rest. In many gardens where place can be found for hosts of beautiful hardy flowers they are not to be seen there, because of the prevalent erroneous notions that the flower garden is a thing apart of itself, a set arrangement of cultivated beds and borders, formal or otherwise.

"Some attempt is made to display floral beauty and some good results are seen, but so long as our efforts begin and end there we are merely prospecting; we have not discovered the actual mine of floral treasure whose outcroppings are not thus localized. This is especially true of hardy flowers, and when we come to a right understanding of the subject ought we not to find in hardy vegetation the main source of garden embellishment, just as in our permanent plantations we use only hardy trees and shrubs. The purpose in view, therefore, is to suggest means and methods of widening the scope of our efforts, to suggest possibilities for growing and enjoying the beauty of more of the vast floral treasures garnered from many temperate parts of the globe, all these to be further amplified by the substantial additions to the original types that have been obtained under cultivation.

"The flower garden that is here advocated goes beyond the prim beds and borders, although admitting the propriety and necessity of these in their place. It advocates getting as near to Nature as the garden will permit, or, in other words, doing in many ways what Nature does, with a tolerable certainty of good results. It will give us flowers on the hillside, flowers in the valley, flowers in the open sunlight or in the shade, in the grass or in the woodland; in short, it will enable us to have flowers in hundreds of places that surround the home heretofore only devoid of them by reason of our neglect to plant; and, which is perhaps of great importance to many, at a minimum cost of future care and keeping after the original outlay.

"Most of the spring bulbous flowers need no cultivation at all, in the sense

in which we understand or apply that word. They are children of Nature, wild species, abounding still in grassy meadows or leafy woods. We, too, can plant them under conditions of similarity. Snowdrop and crocus, scillas and dog-tooth violets are perfectly happy and infinitely more at home planted in association with trees and shrubs. They often perish from disease, if not killed by disturbance in the deeply dug, manured border, yet associated with trees and shrubs and left undisturbed they will go on from year to year increasing and multiplying in numbers and beauty.

"As these early harbingers of spring fade away, the floral procession is continued with flowers of greater stature and more striking beauty. Of these there is the great group of daffodils. It is essentially a European family but they need not be strangers to our gardens. The home of the daffodil is in the grass; in fact, some of the prettiest species refuse to live more than a year or two in cultivated ground, yet in the same garden planted in the grass, continue from year to year with proportionate increase. All that you require is a grassy spot that need not be mown until midsummer. The smallest nook can be prettily adorned, and if you have an acre or two to devote to the purpose, the possibilities are immense. Planting is a simple matter of lifting the sod and underlying soil, dropping in the bulbs and replacing the sod, taking care to plant the groups in a natural or irregular way.

"A word concerning tulips. The familiar type is that of the garden varieties, of which there are hundreds — important spring flowers, too — but scattered through Europe and Asia are a score or more of beautiful and most variable species that can be semi-naturalized about the shrubbery and plantations and bring to the gardens new forms and types of tulip beauty. There is the sweet-scented yellow Tulipa sylvestris of Great Britain, a charming variety to naturalize, and others with branched stems bearing several flowers, novel in appearance to those who have seen only the solitary flowered, ordinary tulip. Tulipa præstans, from Bokhara is a fine species with sometimes as many as five flowers of a bright orange red on a stem twelve to fifteen inches high, and Tulipa Persica from Persia, is another branching tulip, with brilliant yellow, bronze-marked flowers. In all the tulip family, wild or cultivated forms, few can compare in gorgeous beauty to Tulipa Greigii. Besides these there are many others, and if you would take the species and make a tulip garden of them you would wonder why you had for so long been content with the ordinary garden tulip.

"The continuing of the floral procession brings next to view the taller plants, with larger flowers, and a veritable host is at our command. The massing of a collection of hardy herbaceous plants in a long mixed border is at its best a mere collection of units, yet collections more or less in number mainly represent the extent of hardy flower culture. The collection has its place, but it cannot be made a strong feature of the garden. If our aim is to create pictures in the garden landscape, effects of color, distinctive features in different parts, selections, not collections, must be the rule. As soon as we depart from the collective method and take up the selective, the availability of hardy flowers for garden decoration is enormously increased. For example, take some special class of plants suited to a chosen spot, both from the cultural standpoint and with relation to effect in the garden landscape. Thoroughly prepare the soil, and plant it, and you can create a flower feature that will stand for five to ten years with only the ordinary care of keeping free from weeds.

"The bulbs, numerous as they are, comprise only a part of Spring's contribution to the floral gayety of the earth. Another type of vegetation, of perennial characteristics, offers to the garden a wealth of beautiful material. 'Alpine flowers,' we used to call them, and a rockery, or rock garden, was considered an essential adjunct, in fact a necessity, before attempting their cultivation. Too often they perished from drought or starvation, when planted on ill-constructed rockeries. Many of these gems from the high mountain ranges of the world are just as happy if suitably planted and cared for upon the level ground such as the garden affords. Because they are indigenous to high altitudes, it does not follow they must be strangers to gardens. From these lowly types of high mountain life we can gather an assemblage of pretty, easily-grown plants, and make a spring garden of exceeding beauty. Here are some of the important families: Alyssum, arabis, phlox, sedum, saxifrage, sempervivum, iberis, epimedium, silene, pulmonaria, primula, armeria, and many others. To see and enjoy these to the fullest measure, we must not be content with them as units; we should have them in hundreds and thousands if room permit. Some of them are admirable for planting in broad masses as a fringe or margin to shrub plantations; they may even be used as carpet plants where choice shrubs stand widely apart, but beyond this they justify the making of a special feature, especially, where the topography or geological formations permit.

"Suppose we decide to make an iris garden. Here is a family worthy of ten times the attention it gets in the ordinary garden; and no matter how much space you have at command, you can plant half an acre or more, if the space justifies so extensive a planting, and yet show difference of variety in every square rod with fitness of association throughout the whole arrangement. Instead of a mixed medley of everything that flowers at iris time, consider irises only and see what the family has available for such planting. Do you know that you can have an iris garden that will give you profuse and unbroken succession of loveliness from April well on into July? and that, too, without using the family in its entirety, as some types like the cushion irises and the bulbous class need separate special treatment. An appropriate setting to and background for an iris garden is a belt or plantation of shrubs, planting the irises in bold groups in well-prepared soil in the foreground. The dwarf growers are the early bloomers, and height of growth and time of flowering are in such perfect harmony that there need be nothing incongruous in the arrangement.

"Peonies and lilies, happy in appropriate association, replete in variety, may be suggested for another special extensive planting, a garden of them, in fact. The peony needs no eulogism here, as it is one of the hardiest and best appreciated of hardy garden flowers — something you can plant and leave alone for a number of years. There is an unlimited choice from which to plant. A careful selection of the best should be made, not, however, forgetting some of the species like the Chinese Albiflora, with its great, single white flowers as large as a plate, and varieties in other colors that have been raised from it. Other single flowered species, natives of Europe, and their varieties are important too. The peony season is not a long one. While peonies are not averse to the open sunlight, it should be borne in mind that they do remarkably well in the shade, even quite near to large trees, so that a peony garden might be made a great success in a position where an iris garden, if attempted, would be a failure.

"With the passing of the peony bloom, nought remains for the balance of the year but their own great tufts of luxurious leafage, hence the suggestion to plant lilies with the peonies. To give ample room for development it is essential that we plant our peonies at least a yard apart, as by the time they attain full growth they will completely hide the ground, yet there will be much unoccupied ground beneath or between the great spreading leaves. This is just the condition desired by many lilies. They raise their heads of glorious blossom high in the air, much higher than the peony grows, while the peony foliage overspreading and shading the ground, furnishes comfort, shelter, and protection from burning sun to the lily roots. In this association of peony and lily we have practically adaptability, as well as artistic fitness, and the lily family suffices to continue the flowering interest in the garden almost to the end of the year.

"Numerous other groups of flowers have strong claims for consideration. Suppose you have a good, deep, fertile soil that will grow good delphiniums, why not plant a group of a hundred or more? In all Flora's fair family there are none more stately, and what a range of color they present in every conceivable shade of blue! Perhaps your ground is poor and shallow; then take the yuccas, filimentosa, and flaccida, and plant these in bold, broad masses. In New Jersey, and doubtless elsewhere, there are by the country roadsides great groups of the tawny day lily, Hemerocallis fulva, apparently wild, and gorgeous they look with thousands of flowers open at one time on a July day. Does not this suggest a similar free use of the other species of Hemerocallis in our gardens, in association with tree and shrub in a wild, free way? Bocconia, Crambe, Ferula, Echinops, and Polygonum are names that, to those who know the plants that bear them, recall those of great size and striking character, too coarse perhaps for the choice collection. But given a place in the tree and shrub plantations they will give the garden another aspect of beautiful, hardy vegetation.

"As summer verges into autumn, other great groups continue the floral story of the year. In short, hardy flower culture presents so many aspects, provides us with material suitable to every kind of soil, condition, and environment, with flowers for spring, summer, and fall in unlimited variety, as to make utterly inexcusable the generally prevalent monotony of so-called flower gardening. Instead of universal imitativeness in the display of tender summer flowers, we want original, adaptive plantings of those that are hardy and permanent, and this we must do with the knowledge that no garden can do justice to them all."

ILLINOIS STATE ASSOCIATION

The prospect of securing a state appropriation for experiment work for floriculture under the direction of an advisory committee of the Illinois State Florists' Association has awakened great enthusiasm in that organization. At a meeting of the Chicago Florists' Club on March 9, thirty new names were added to the already long list of members of the state society. Application to incorporate has been filed. In the endeavor to secure favorable consideration by the state legislature, the committee in charge has been surprised at the lack of realization of the importance of the greenhouse industry in Illinois. For educational purposes it has issued the following open letter:

By an act approved March 2, 1887, the national government appropriated $15,000 per annum to each state for the purpose of establishing and maintaining an agricultural experiment station, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture and to promote scientific investigation and experiment respecting the principles and applications of agricultural science."

The Agricultural Experiment Station of Illinois was placed under the direction of the trustees of the State University as a part of the University. From 1887 to 1901 the station was maintained upon the United States fund of $15,000. Its sphere and its activities were necessarily limited because the above sum had to be used for salaries, printing four bulletins a year, as required by law, labor, supplies, etc. When divided among four or five departments representing great agricultural interests, such as agronomy, animal husbandry, horticulture, dairying, together with the necessary investigation in botany, entomology and chemistry relating to these industries, it is a matter of wonder that the stations have done the great work they have. According to the provisions of the law, none of the money can be used for buildings, as it was supposed the states would make the necessary appropriations for them.

Four years ago the various agricultural organizations of the state, realizing that the appropriations received from the national government were inadequate, sought and obtained appropriations. The past two years appropriations were made as follows: Twenty-five thousand dollars for livestock investigations, $25,000 for the soil survey of the state, $15,000 for dairy investigations, $10,000 for corn investigations, and $10,000 for orchard investigations. Each of these appropriations was expended under the direction of an advisory committee of five from each of following associations: The Illinois Livestock Breeders' Association, Illinois Farmers' Institute, Illinois Corn Growers' and Illinois Corn Breeders' Associations, Illinois Dairymen's Association and the Illinois State Horticultural Society.

The sums mentioned are specifically appropriated for certain investigations and have been so used. The only reason the florists have not had similar appropriations is because they have not asked for an appropriation for experimental work.

According to the census figures for 1900 there was invested in floriculture in Illinois the sum of $4,648,056. Of this amount $2,096,652 was represented by buildings and $2,439,163 in land. The wholesale value of the flowers and plants sold in 1899 was $1,867,855. There were 8,414,541 square feet of glass. In addition to the above figures, which relate to the commercial florists, or those who derive the principal part of their income from the sale of flowers and plants, we find 1,199 gardeners using a total area of 8,744,020 square feet in growing plants.

Greenhouse building firms estimate the amount of greenhouse building material, including structural work, glass and pipe and heating apparatus, at $2,000,000 per annum of sales in the city of Chicago alone. Information obtained by builders, through the trade press, from wholesale plantsmen, and estimates from leading members of the trade, make it certain that the value of investment and the amount of annual output are now 50 per cent greater than the above quoted figures for 1900. Conservative estimates place the coal consumption of the greenhouses of Illinois at 150,000 tons per annum.

In Cook County we find the glass area of the florists to be 5,855,612 square feet; in Du Page County, 532,680 square feet; Kane, 195,563; Sangamon, 184,240; McLean, 150,265; Will, 110,455; Morgan, 96,000; St. Clair, 95,330; Peoria, 86,509; Lake, 73,487, etc. With few exceptions there is in every county of the state some glass devoted to floriculture, and if we include the glass used in market gardening, the industry is practically universal, so far as the state is concerned. Indeed, no other state has so universal an interest in floriculture as Illinois. The industry is common to the whole state, and if we remember that a portion of the appropriation asked for should be used for experimentation on the home grounds of the state, the fact is established that floriculture is an interest that affects every person who possesses even a few feet of land. From the foregoing it will be seen that the results of investigations will be far reaching.

New York, the only state which equals or surpasses Illinois in commercial floriculture, has provided greenhouses at its two experiment stations at Geneva and Cornell. Many experiments have been carried on for the benefit of this industry, particularly with vegetables under glass. In Illinois, with her great floricultural interests, not a dollar has been specifically appropriated for experimental work along this particular line, while other agricultural interests have been cared for and florists have paid their part of the state taxes without any direct benefit in return.

In Rhode Island an asking has been made of the legislature for the sum of $15,000 for greenhouses. They will get it because the florists and gardeners are supporting it. In Illinois there are single establishments with a greater glass area than there was in the whole state of Rhode Island in the census year.

The state of New Hampshire has to-day perhaps the most compact and serviceable little range of glass of any state agricultural college and experiment station, costing $7,000 and built under a state appropriation. Compared with the floricultural industry in Illinois, New Hampshire has not as much glass as Du Page County, to say nothing of Cook County, which surpasses every state in glass area except New York, Pennsylvania, New Jersey and Massachusetts. Is $10,000 too great a sum for Illinois to put into glass structures?

The lines of work under glass which most likely will be taken up are methods of combating insect and fungous diseases and investigations in the use of commercial fertilizers. Whatever is undertaken will be determined by an advisory committee appointed or elected by the Illinois State Florists' Association, and this committee will certainly see to it that only such problems are investigated as are of the most vital interest to the whole state. The law contemplates a fund of $10,000 a year to pay all operating expenses, labor, coal, supplies, printing, etc., as well as co-operative experiments carried on away from the experiment station. If an insect or fungous pest appears on ornamental plants anywhere in the state which cannot be readily determined, an investigator should be put to work at it to the end that it may be brought under control for the common good of all the trade. Under the law for orchard investigations almost all the work has been carried on away from the university. No one knows at the present time what this co-operative work will be, but there will necessarily be some such work done, and the appropriation must cover all possible contingencies, especially since there can be no profit in maintaining a range of glass for experimental work, as the work will be largely with diseased plants.

The movement for appropriations is favored by the Illinois State Florists' Association, the Chicago Florists' Club, and many other prominent florists of the state, but every florist in the state should co-operate, and this can best be done by urging your representatives and senators to vote for the bill. Interview them when they are at home, if possible, otherwise write them a strong letter.

J. C. Vaughan, President Society of American Florists, Chicago.
James Hartshorne, President of the American Carnation Society, Joliet, Ill.
P. J. Hauswirth, State Vice-President (north) Society of American Florists, Chicago.
John Willius, State Vice-President (south) Society of American Florists, Danville, Ill.
The Chicago Florists' Club, by resolution; attest, Robert Johnstone, Secretary.
The Illinois State Florists' Association, W. N. Rudd, chairman pro tem.
George Kuhl, Pekin, Ill.; J. F. Ammann, Edwardsville, Ill.; A. C. Canfield, Springfield, Ill., and many others.

MALUS SCHEIDECKERI

By G. Frahm, Elmshorn, Germany.

Accompanied by a good photograph, Moller's *GartenZeitung* gives the following notes on this handsome forcing apple: A forcing shrub of first grade is M. Scheideckeri. With but average culture is can be brought into full flower by January and in such a profusion of bloom as to give the impression of an entire flower pyramid. As a dwarf it is particularly effective and salable.

The flowers are well filled and keep very long. Every one who has tried forcing this variety has spoken well of it.

French horticulture has acclimatized a new tropical tuber for Europe. The Paris correspondent of the *Newcastle Chronicle* states that it is one of the sweet potatoes of Western Africa, of which a complete mastery has been obtained in the experimental gardens at Bordeaux. Excellent accounts are given of the agricultural value of the new tuber, which, besides cropping well, can be profitably used in all its parts. Even the leaves are said to be no bad substitute for spinach. As for the tubers, besides their high nutritive qualities as a food highly relished by cattle, they contain 17 per cent. of sugar, which is higher than that of beet root, and also alcohol. — *Boston Transcript.*

Business Changes

S. H. Forshaw has started in the seed business at Pendleton, Ore.

The Swan Floral Co. of Findlay, O., has opened a branch store at Lima.

The Quaker Hill Nursery Co. has been incorporated at Newark, N. J. Capital $5,000.

Mrs. Sutherland has sold out her business on Bromfield Street, Boston, to S. Hoffman.

Duffey & Petterson succeed C. S. Battin in the greenhouse business at South Charlestown, O.

W. C. Pucket has opened at Fort Wayne, Ind., in the nursery trade. Address, R. R. No. 8.

Slinn & Hughes, wholesale florists, New York City, have dissolved partnership, Mr. Hughes retiring.

Mellor & Saunders have opened a tasteful retail flower store at 30 Prescott Street, Lowell, Mass.

William H. Maher, Newport, R.I., has lately installed a new Scollay boiler, replacing one that has been in use for twenty-nine years.

C. A. and L. A. Royce have bought the Randall place, Palmer, Mass., and will erect a range of greenhouses on the property.

William Butcher, one of the oldest established florists in Providence has sold his place and will retire to a life of gentlemanly leisure.

John A. Scollay, Brooklyn, N. Y., has just completed some new lines of boilers and the firm is now making six styles and about seventy sizes.

The creditors of W. L. Rementer, florist, Lansdowne, Pa., have petitioned to have him adjudged bankrupt. He disappeared nearly two weeks ago and has not returned. Among the larger creditors are the H. F. Michell Company, Keller Pottery Company and George C. Watson. Rementer has been Chief of Police of Lansdowne for several years.

LIST OF PATENTS

Issued March 7, 1905.

784,029. Fruit-Slicer. William H. Boutell, Rochester, N. Y., assignor to Boutell Manufacturing Co., Rochester, N. Y.
784,346. Method of Cultivating Plants by Electricity. Eugene Pilsoudsky and Eugene Ragozine, St. Petersburg, Russia.
784,396. Lawn-Mower. John H. Hall, Patrick, W. Va.
784,458. Trench-Cutter. Leonard C. Wemple, Chicago, Ill.
784,527. Process of Peeling Fruit. Charles J. Vernon, Fresno, Cal.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

NEW TRANSPLANTING TRUCK

Invented by Peter Bisset,
Washington, D. C.

This is an entirely new departure in the line of transplanting trucks, as the illustrations will show. It has a flat bed, having one end tapered to an edge, ante-friction rollers having their journals on the bed below the upper surface thereof, a pair of wheels on which the truck is supported intermediate its ends, permitting the truck to be tilted so that the uppermost plane of the bed may meet the ground, and a windlass mounted at that end of the bed opposite the tapered end and in close proximity to the surface of the bed, effecting a pull in a direction approximately parallel to the upper plane of the bed, a band adapted to pass around the ball of the plant to be transplanted, and winding connections between the ends of the band and the windlass.



Method of Loading and Unloading a Tree

This truck has now been in operation for almost a year, and has proved in every way satisfactory in transplanting trees, for moving large palms in tubs, tree stumps, and heavy stones; in fact it can be used to move anything that is too heavy or too large for men to carry; doing the work better, quicker, and with less men than by any of the older methods.

In transplanting, the tree is dug around in the usual way, and the ball undermined as much as possible, then the side of the trench is cut away the width of the truck so as to form a runway for the truck to get under the ball. The tapered end of the truck is then placed under the ball, and the belt that encircles the ball put in place. This belt is then attached to a chain from the windlass, and the whole is then wound up on the truck. As soon as the tree is pulled far enough up, the truck is balanced by the ball resting over the wheels, and then assumes a level position, when it can be pulled out and transported to the hole already prepared for the reception of the tree. To unload, the operation is just reversed, and the tree is allowed to slide slowly into its place.

With this truck a tree can be moved without fear of loss, if ordinary care is used to see that a proper proportion of roots are saved. The inventor has some very valuable trees that were moved on this truck last spring, that came through the past summer so successfully that no one could tell that they had been recently moved. They were moved with such good balls that no pruning or shortening of the branches was required. The truck can be made of various sizes to answer all purposes, from moving small shrubs up to large trees. In the larger sizes, four wheels are used instead of two, as in the one illustrated. With this machine a tree is moved in an upright position, and is moved and planted without breaking the ball, and with such ease that few men are required, the work being done so rapidly that the roots that are exposed have little chance to dry up.



Large Palm in Transportation

The invention is fully covered by patent rights.

Gold Medal Winner

At St. Louis

Did You See Exhibited at St. Louis the
NEW CRIMSON RED CANNA

MRS. WM. F. KASTING?

Height, 3 1-2 feet. Most brilliant in color, most prolific of all Red Cannas. Blooms all the time, and is exceptionally fine for conservatory decorations. You will need it in your business. **Awarded on its merits, a Gold Medal at the World's Fair, 1904**

PRICES for bulbs, ready for delivery now: $1.00 each, $9.00 per doz. $50.00 per hundred. Stock limited.

WM. F. KASTING, 383-387 ELLICOTT STREET BUFFALO, N.Y.

In writing to advertisers, kindly mention HORTICULTURE

Chrysanthemums

Come and see our stocks or allow us to quote you on any or a number of varieties

John N. May, Summit, N.J.

In writing to advertisers, kindly mention HORTICULTURE

LO AND BEHOLD

This is second notice and last chance to secure a big advertisement in the

ROSE NUMBER

Please not forget that HORTICULTURE can furnish more buyers to the square mile than any other medium on this continent. We propose to "Get There."

HORTICULTURE
11 Hamilton Place, BOSTON

THE BEST WHITE CARNATION IS

Lieut. Peary (WARD)

CERTIFICATED 90 POINTS

PEDIGREE—White seedlings for several generations. **COLOR**—Snow white. **FRAGRANCE**—Very strong clove, decidedly fresh, and pleasing. **SIZE**—Large, averaging 3 inches in diameter on strong stiff stems, 18 to 20 inches in length. **FLOWER**—Full, broad petaled and high center and of a fine symmetrical form. **CALYX**—Long, strong and does not burst. Fine keeper and excellent shipper. **HABIT**—Strong and erect. **GRASS**—Medium width. **CONSTITUTION**—Very vigorous and free from disease. Cuttings root rapidly and will be sent out in the most perfect condition. Commences blooming October 15th and flowers continuously throughout the winter, affording an abundant crop. A first class commercial variety in every respect. NOW BOOKING ORDERS.

PRICE, $12.00 per 100; $100.00 per 1000.

Cottage Gardens Co., Queens, N.Y.
Incorporated

Also the Following
NOW READY

ETHEL WARD THE PRESIDENT WHITE LAWSON	$7.00 per 1000. $60.00 per 1000.
ENCHANTRESS CHRISTMAS EVE	$4.00 per 100. $30.00 per 1000.
GOLDEN EAGLE	$5.00 per 100. $40.00 per 1000.
HARRY FENN LAWSON	$3.00 per 100. $25.00 per 1000.
PROSPERITY	$2.00 per 100. $15.00 per 1000.
MACKINAC THE BELLE LADY BOUNTIFUL JUDGE HINSDALE MRS. PATTEN NELSON FISHER OCTOROON FLAMINGO	$6.00 per 100. $50.00 per 1000.

50 of a kind at 100 rate; 250 of a kind at 1000 rate.

In writing to advertisers, kindly mention HORTICULTURE

R. C. HAYDEN, Secr. and Treas. WILLIAM J. MUTH, Mgr.

The PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSOM ST., PHILADELPHIA

Choice Beauties, Brides and Maids. Fancy Carnations.

Plants for Easter.

Write for List and Prices

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

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In writing to advertisers, kindly mention HORTICULTURE

GARDENIAS
WHITE VIOLETS

In Quantity. Extra Choice

Samuel S. Pennock

THE WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

Welch Bros.

Largest Wholesale Shippers of.....

CUT FLOWERS

SOLE AGENTS FOR

FOLDING BOXES

Durable Economical

15 Province Street

TEL. MAIN 6267 BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

Hardy Cut **Dagger and Fancy**

FERNS

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of **FLORISTS' SUPPLIES** In the country

H.M.Robinson & Co.

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Boston, Mass.

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER

WHOLESALE FLORIST 1432 So. Penn. Sq., PHILA.

Fancy Carnations

Bulbous Stock in Variety

In writing to advertisers, mention HORTICULTURE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO March 14	ST. LOUIS March 14	PHILA. March 14	BOSTON Mar. 15
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to 50.00	25.00 to 40.00	40.00 to 50.00	30.00 to 50.00
" Extra	32.00 to 36.00	15.00 to 20.00	30.00 to 35.00	20.00 to 25.00
" No. 1	15.00 to 25.00	10.00 to 12.50	25.00 to 35.00	8.00 to 12.00
" Lower grades	2.00 to 8.00	5.00 to 8.00	4.00 to 12.50	4.00 to 8.00
Bride & Maid—Fan. & Sp.	8.00 to 10.00	..... to 8.00	10.00 to 12.00	6.00 to 8.00
" " Extra	6.00 to 8.00	.. .. to	8.00 to 10.00	4.00 to 6.00
" " No. 1	4.00 to 6.00	..... to	6.00 to 8.00	2.00 to 3.00
" " Lower gr.	1.00 to 3.00	4.00 to	3.00 to 6.00	..... to .....
Liberty, Fancy & Special	8.00 to 10.00	..... to 8.00	25.00 to 30.00	8.00 to 12.00
" extra	6.00 to 8.00	..... to	15.00 to 20.00	6.00 to 8.00
" No. 1	4.00 to 5.00	..... to	10.00 to 12.50	4.00 to 6.00
" Lower grades	1.00 to 3.00	4.00 to	4.00 to 6.00	2.00 to 4.00
Golden Gate } Best	6.00 to 8.00	.. .. to 6.00	10.00 to 12.00	.. .. to 6.00
Ivory } Medium	3.00 to 5.00	..... to	6.00 to 8.00	..... to 4.00
Chatenay } Culls	1.00 to 2.00	4.00 to	3.00 to 6.00	..... to 2.00
CARNATIONS				
Fancy Class	2.00 to 3.00	..... to 3.00	4.00 to 6.00	2.00 to 3.00
General Class	1.00 to 2.00	1.00 to 2.00	2.50 to 3.50	1.00 to 2.00
Lower Grades	.75 to 1.00	..... to 1.00	1.50 to 2.00	.75 to 1.00
VIOLETS				
Special	.55 to .75	..... to	.50 to .60	.40 to .60
General	.25 to .50	.25 to .50	.35 to .40	.25 to .35
Single	.30 to .60	..... to	.25 to .40	.20 to .25.
ORCHIDS				
Cattleyas	50.00 to 75.00	..... to	50.00 to 60.00	50.00 to 60.00
Cypripediums	12.50 to 16.00	.... to	..... to 15.00	..... to .....
BULBOUS				
Lilies	6.00 to 12.50	10.00 to 12.50	10.00 to 12.50	6.00 to 10.00
Lily of the Valley	..... to 2.00	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Paper White Narcissus	2.00 to 3.00	.. .. to 3.00	2.00 to 3.00	1.00 to 2.00
Daffodils	1.50 to 3.00	2.00 to 3.00	2.50 to 3.00	2.00 to 3.00
Tulips	1.50 to 4.00	..... to	..... to	2.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8.00
Freesia	..... to	..... to 2.00	1.00 to 3.00	1.00 to 1.50
MISCELLANEOUS				
Mignonette	3.00 to 10.00	3.00 to 4.00	2.00 to 4.00	1.00 to 2.00
Sweet Peas	.75 to 1.25	.25 to .50	.50 to .75	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	..... to 1.00	..... to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	1.25 to 1.50	..... to .....
" Farleyense	..... to	..... to	..... to 10.00	..... to .....
Smilax	10.00 to 12.50	..... to 15.00	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	25.00 to 50.00	50.00 to 75.00	..... to 50.00
" " bunches	2.00 to 5.00	..... to	35.00 to 60.00	35.00 to 50.00
" Sprengeri "	2.00 to 4.00	..... to	50.00 to 60.00	35.00 to 50.00
Gardenias	12.50 to 16.00	..... to	12.00 to 16.00	..... to .....
Lilac per bunch	.75 to 1.00	.60 to .70	1.00 to 1.50	.75 to 1.00

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

CUT-FLOWER MARKET REPORTS

BOSTON The current week sees a stronge rmarket, but without any material change in values. High grade material finds a market, as a rule, and whatever stock remains unsold belongs in the refuse class. This condition is very gratifying, considering the outlook as it appeared one week ago.

BUFFALO Market has been glutted since the opening of Lent. All kinds of flowers are moving slowly and are sold at very low prices. Lilies and other bulbous stock are a burden, also carnations and violets. All social events are at a stand still, hence the above conditions.

CHICAGO No change from the depressed condition in the cut-flower market. Demand very light, and the street venders have had a better opportunity to pound values. Select Beauties are the scarce item, but the cull grades of this stock continue in number beyond trade requirements. Wieland & Risch are the first to come in with the new crop, which is of extra fine quality. Carnations are the weak spot of the trade, almost unsalable. Lady Bountiful is the best seller. White Lawson and Gov. Wolcott are close seconds, and Mrs. Lawson continues as the most popular pink. Violets are in over supply. Princess of Wales and single California are the favorites with local buyers.

There have been sharp fluctuations in bulbous stock occasioned by the enormous supply. Harrisii lilies of good quality are scarce. Only a small proportion of the total receipts are first grade. Callas are a glut; the lily of the valley market is affected similarly. Orchids, especially catteleyas, are difficult to get. White violets and gardenias are in fair supply.

CINCINNATI With plenty of flowers now coming in, and business a little on the quiet side, the wholesale houses find much trouble to clean out their stock at anywhere near a fair figure. Very little else can be said about the conditions of trade, as there is more stock than demand.

LOUISVILLE Business conditions last week were very favorable, there being a great demand for good stock. Carnations, violets, and roses are good in quality, and the demand and supply are excellent. The sale of bulbous stock, lily of the valley, etc., is very satisfactory.

PHILADELPHIA. Market the past week very draggy owing to Lent and other causes. Monday was about the only good day. Stocks were of good quality all along the line. Beautvs were a llttle more plentiful with demand light. Carnations hung fire and dropped in price 25 to 50 per cent. Violets have been going better on account of the good weather, but prices are still very, very low. Gardenias plentiful and good, and went fairly well. Lily of the valley and other miscellaneous stock were in good supply and demand normal.

PITTSBURG We have had a week of dull business. Social entertainments are practically suspended, and few demands exist except for occasions of mourning and solemnity. Last week the supply of roses was excessive (with the exception of fancy stock) and towards the end of the week they could be moved off only by liberal concessions in selling figures. The same may be said of bulbous stock which is overabundant. Carnations are plentiful, and they move fairly well, especially good whites and scarlets. Violets are dull, though the fashion amon gst the women of wearing great corsage bunches is revived. Lilies are showing themselves in great quantities and fine quality. Pot plants are coming in in good quantities and all that is wanted is a few fair days to stir up the plant buyers.

CHICAGO TRADE TIPS

Tulip Vermillion Brilliant, the leader in its color for many years, has a tendency to come black-tipped with some growers.

Belle of Lyons is the queen of reds. It can be had as early as Proserpine. This variety commands the best price in its color.

Yellow Prince was superior to King of the yellows this season, being an easy doer. It should come slowly; do not overforce this sort.

A tip on tulip forcing will not be amiss here. You cannot expect good blooms from stock grown under the benches. The successful specialists here give their stock the best place in their establishment, and after March 1 stop forcing altogether, allowing the crops to come on natural. Such as they wish to come later in the season are stored in cool cellar rooms. The best Easter tulip will be those stored this way.

R. H. Warder, a large, light pink gladiolus, and gladiolus Princeps, a rich crimson, were the novelties in this market last summer. The spikes brought 5 cents as the top price last year.

How to grow high-grade Narcissi will be my next tip.

NOVELTIES IN CHICAGO

White violets and gardenias are handled exclusively by McKellar. Long-stemmed Liberty roses is Wieland and Risch's long suit. Bassett & Washburn offer Rose. La Detroit. Chicago's popular red carnation "Chicago" is best grown by Wietor Bros. Lady Bountiful and Cardinal are the head liners of Chicago Carnation Co., at the flower-growers' market. Shasta daisies can be found at Winterson's; lilac plants, white and purple, at Stollery Bros; and the novelty for this week, True Shamrock, at Deamud's.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

Florists Out of Town

Taking orders for aelivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street - - NEW YORK

In writing to advertisers, mention HORTICULTURE

Cut Flowers

BOSTON'S BEST

....All Varieties....

SHIPPED TO ALL POINTS

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Largest Stock in New England
Lowest Wholesale Rates

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Tel. Main 5973 BOSTON

FRED EHRET WHOLESALE FLORIST

Center for BRIDES, MAIDS, BEAUTIES, CARNATIONS, Etc.

1403-5 Fairmount Ave., PHILADELPHIA.

Established 1890

Mention HORTICULTURE when you write.

There is only one kind of advertising that is wise. It's the kind that makes business. Cut out the rest.

WEILAND-AND-RISCH

CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.

WHOLESALE FLORISTS

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

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Long Distance 'Phone, 1435 Court.

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J.A.BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

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JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies. Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
In writing to advertisers, kindly mention HORTICULTURE

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
VIOLETS
Carnations
Lily of the Valley
Hyacinths, Lilies
Paper Whites, and
all other flowers
in season
Telephones 2200 / 2001 Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside, N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending March 11, 1905.	First Half of Week begining Mar. 13, 1905.
ROSES		
Am. Beauty, fan. and sp	26.00 to 30.00	20.00 to 30.00
" extra	12.00 to 20.00	12.00 to 20.00
" No. 1	6.00 to 12.00	6.00 to 12.00
" Lower grades	1.50 to 6.00	1.50 to 6.00
Bride and Maid, fan. and sp	6.00 to 8.00	6.00 to 8.00
" " extra	4.00 to 6.00	4.00 to 6.00
" " No. 1	2.00 to 5.00	2.00 to 5.00
" " Lower gr	1.00 to 2.00	1.00 to 2.00
Liberty, fan. and sp.	12.00 to 25.00	12.00 to 25.00
" extra	8.00 to 10.00	8.00 to 10.00
" No. 1	4.00 to 6.00	4.00 to 6.00
" Lower gr	1.00 to 3.00	1.00 to 3.00
Golden Gate, Ivory, Chatenay — Best	10.00 to 12.00	10.00 to 12.00
Golden Gate, Ivory, Chatenay — Medium	4.00 to 6.00	4.00 to 6.00
Golden Gate, Ivory, Chatenay — Culls	2.00 to 3.00	2.00 to 3.00
CARNATIONS		
Fancy Class	2.00 to 5.00	2.00 to 5.00
General Class	1.00 to 2.00	1.00 to 2.00
Lower Grades	.50 to .75	.50 to .75
VIOLETS		
Special	.35 to .50	.35 to .50
General	.15 to .25	.15 to .25
Single	.20 to .40	.20 to .40
ORCHIDS		
Cattleyas	50.00 to 60.00	50.00 to 60.00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	4.00 to 8.00	4.00 to 8.00
Lily of the Valley	.50 to 3.00	.50 to 3.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Paper White Narcissus	1.00 to 2.00	1.00 to 2.00
Daffodils	1.50 to 3.00	1.50 to 3.00
Tulips	1.00 to 3.00	1.00 to 3.00
Callas	..... to	..... to .....
Freesia	.50 to 1.00	.50 to 1.00
MISCELLANEOUS		
Mignonette	1.00 to 5.00	1.00 to 5.00
Sweet Peas	.50 to 1.00	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	.75 to 1.00
" Croweanum	1.25 to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to .....
Smilax	10.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" " bunches	20.00 to 35.00	20.00 to 35.00
" Sprengeri "	20.00 to 35.00	20.00 to 35.00
Gardenias	15.00 to 25.00	15.00 to 25.00
Lilac, per bunch	.50 to 1.00	.50 to 1.00

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

Chas. Smith
Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers.
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WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

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55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

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WHOLESALE FLORISTS
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Tel. 2559 Madison Sq.

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

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42 West 28th Street *WHOLESALE FLORISTS*
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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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44 West 28th St. New York City
Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
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THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
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GIVE US A TRIAL WE CAN PLEASE YOU

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JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

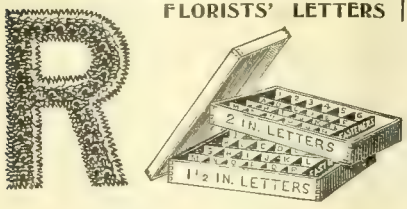
TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI March 13	BALTIMORE	BUFFALO March 14	PITTSBURG March 14
ROSES				
Am. Beauty, fan. and sp.	..... to 40.00	..... to	30 00 to 40.00	50 00 to 60 00
" extra	..... to 30.00	..... to	20 00 to 25 00	30 00 to 40 00
" No. 1	15.00 to 25.00	..... to	10 00 to 15 00	15.00 to 20.00
" Lower grades	4.00 to 8.00	..... to	2.00 to 6 00	6 00 to 10.00
Bride and Maid, fan and sp.	6.00 to 8.00	..... to	..... to	15.00 to 18.00
" " extra	4.00 to 5.00	..... to	8.00 to 10.00	10.00 to 12.00
" " No. 1	..... to 3.00	..... to	5 00 to 7 00	6 00 to 8 00
" " Lower gr.	..... to 2.00	..... to	2.00 to 3.00	3.00 to 4.00
Liberty, fan. and sp.	6.00 to 8.00	..... to	10.00 to 12 00	18.00 to 20 00
" extra	4.00 to 5.00	..... to	6 00 to 8.00	15 00 to 18 00
" No. 1	..... to 3.00	..... to	4 00 to 6.00	6 00 to 10.00
" Lower gr.	..... to	..... to	3.00 to 4.00	4 00 to 5.00
Golden Gate } Best	..... to 8.00	..... to	5.00 to 6.00	10.00 to 12.00
Ivory } Medium	..... to 6.00	..... to	3.00 to 4.00	6.00 to 8 00
Chatenay } Culls	3.00 to 4.00	..... to	..... to 3.00	3.00 to 8.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to	2.50 to 3.00	5 00 to 6.00
General Class	1.50 to 2.00	..... to	1.50 to 2.00	3 00 to 4 00
Lower Grades	..... to 1.00	..... to	1.00 to 1.25	1.00 to 2.00
VIOLETS				
Special	..... to .75	..... to	.50 to .60	.75 to 1.00
General	..... to .50	..... to	.30 to .40	.60 to .75
Single	..... to .25	..... to	.25 to .50	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 15.00	..... to	10.00 to 15.00	12 00 to 18.00
Lily of the Valley	3 00 to 4.00	..... to	2.00 to 4 00	3.00 to 4.00
Roman Hyacinths	2.00 to 3 00	..... to	2.00 to 3.00	2.00 to 3 00
Paper White Narcissus	2.00 to 3.00	..... to	2.00 to 3.00	2 00 to 3.00
Daffodils	2.00 to 3.00	..... to	2.00 to 3.00	4.00 to 6 00
Tulips	2.00 to 3.00	..... to	2.00 to 3.00	2.00 to 4.00
Freesia	..... to 1.00	..... to	2.00 to 3.00	3.00 to .....
Callas	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	..... to	2.00 to 4.00	1.00 to 3.00
Sweet Peas	.75 to 1.00	..... to	.40 to .60	.50 to .75
Adiantum Cuneatum	..... to 1.00	..... to	.60 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1 50
" Farleyense	..... to	..... to	10.00 to 12.00	10.00 to 12.00
Smilax	10.00 to 12.50	..... to	12.50 to 15.00	12.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to	40.00 to 60.00	30 00 to 50 00
" " bunches	..... to 35.00	..... to	25.00 to 50.00	20 00 to 35 00
" Sprengeri "	..... to 35.00	..... to	25.00 to 50.00	30.00 to 50.00
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	1.00 to 2 00	1.00 to 1.25

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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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84 Hawley St., BOSTON, MASS.

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...MANUFACTURERS OF...

Folding Flower Boxes

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Write for Price List and Samples

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122 W. 25th St., New York, N. Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

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PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

J. H. Lee, Pres. Geo. N. March, Treas.

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Telephone, Main 3978-1 J. B. Olden, Mgr.

Green Silkaline.

Do not be put off with cheap substitutes.

John C. Meyer & Co.,

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Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

Electros for Sale

WOODCUTS and HALF-TONES of artistic floral designs, funeral, presentation, etc.

Needed by every retail florist as examples from which to take orders for design work.

CHEAP

Address N. Care HORTICULTURE
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FOR SALE or LEASE

AN EXCEPTIONAL BARGAIN for the right party; greenhouse with 8000 sq. ft. of glass. Hot water heating plant with practically new boilers, 2½ acres of good land, in fine location, well established business in full operation.

Apply to ANNA W. KIDDER
Waltham, Mass.

FOR SALE—7-room house, 16,000 ft. of land and greenhouse near center of city of 30,000 inhabitants. Grand chance for gardener. Grow ferns, palms and bedding stuff for retail trade. Plenty of jobbing. Or could increase glass for wholesale growing. Fifteen minutes to Boston. Nine-cent fare. Five hundred dollars down; balance, easy payments, will make easier terms if right parties.

Inquire H. H., Care HORTICULTURE,
11 Hamilton Place, Boston.

SITUATION WANTED—As a gardener on private place by Englishman to grow a general line of stock. Good reference. Four years in present place. Massachusetts preferred. Refer to F. S. Moseley, Box 5234, Boston; Mass. Address F. G., care of F. S. MOSELEY, Newburyport, Mass.

SITUATION WANTED—As foreman on good-sized place where rose growing for cut flowers is made a specialty. Refer to Alex. Montgomery, Waban Conservatories, Natick, Mass. Address GROWER, care of HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As Gardener to have charge of estate. Long experience in all departments, in fruit and plant growing all kinds; care of lawns, trees, shrubs etc.—for reference apply to Mr. W. J. Stewart, editor of this paper.

W. S., Care HORTICULTURE,
11 Hamilton Pl., Boston.

WANTED—By March 1st. Assistant Gardener for private place near Lenox; one who thoroughly understands Roses, Grapes, Orchids, etc. Wages $30.00 a month and board. Address stating age, experience, references, etc.

Care T. I. GREY, 32 So. Market St., Boston

WANTED—At once, two good men, must understand watering and potting of palms, ferns and bedding plants. Steady positions for the right men. State age, experience and wages wanted. V. LEUTHY & CO., Perkins Street, Roslindale, Boston, Mass.

WANTED—A young man to take care of Orchids; must be thoroughly competent, of good habits, and interested in his work. One with an English training preferred. Send references to

Wyndhurst Gardens, Lenox, Mass.

GREENHOUSES BUILDING OR PROJECTED

Westview, Pa. — Blind Bros., house 20×200.

Lawrence, Mass. — A. H. Wagland, house 21×55.

Bellaire, O. — George W. Kiger, house, 20×50.

New Bedford, Mass. — Joseph Azevedo, one house.

Louisville, Ky. — A. Heitz, two houses, each 22×145.

Plainfield, N. J. — Belleview Nursery, one carnation house.

Pine Ridge, N. Y. — Werick Bros., two houses, each 28×100.

Onondaga Valley, N. Y. — P. R. Quinlan & Co., two rose houses.

Pleasant Hill, Mo. — George M. Kellogg, 75,000 sq. feet of glass.

Hinsdale, Ill. — Bassett & Washburn, six houses, each 576 ft. long.

CATALOGUES RECEIVED

Blue Hill Nurseries, Julius Heurlin, South Braintree, Mass. List of specialties in herbaceous plants and coniferæ. Illustrations and press-work excellent. A superb collection offered by an expert and enthusiast.

Thadeus N. Yates & Co., Mount Airy, Philadelphia. Spring trade list of deciduous and evergreen trees, shrubs, vines, etc. A condensed list of good things offered in quantity.

Morrisville Nursery, S. C. Moon, Morrisville, Pa. A beautiful catalogue of the choicest garden ornaments. Berberis Thunbergii in colors appropriately adorns the title-page, and the illustrations throughout are gems.

Holton & Hunkel, Milwaukee, Wis., have distributed a unique calendar beautifully decorated with several species of daisies, on metal. It is a work of art. We have received one and wouldn't part with it for anything.

Comet

Improved Tomato

A Covent-Garden Favorite

Plants ready for business from 3 1-2 in. pots, $5.00 per 100

William W. Edgar

WAVERLY, MASS.

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Simple methods of correct accounting especially adapted for florists' use.

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Telephone, Main 58

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Sell the CHEAPEST and BEST box on the market. Send for their catalogue.

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CLEMATIS MONTANA GRANDIFLORA

Clematis Montana Grandiflora

A variety of Clematis which, when better known, is destined to become as popular as Clematis Paniculata, its main value being in the fact that it flowers in advance of all other hardy climbers, frequently beginning to expand its flowers as early as the last week in April, continuing well through May. These flowers are from 1 1-2 to 2 inches in diameter and of a pure white color, and are produced in such masses as to completely hide the plant, which is of remarkably strong vigorous growth and insect and disease proof.

Stock limited. Strong two year old plants

35c. each; $3.50 per dozen

Henry A. Dreer

714 Chestnut Street Philadelphia, Pa.

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LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for - - - $24.00
Two or more cases at - $7.50 per 1000

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..SEEDS..
Farm, Garden and Lawn Supplies
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PHILADELPHIA

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Are Headquarters for

Seed Potatoes

Vegetable, Flower and Grass Seeds

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Gold Medals and First-class Certificates.—Awarded at principal European Exhibitions.

Thousands of glowing carmine blossoms produced on a single bush. Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

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Lobelia Crystal Palace Compacta
1-8 oz., 25c.; oz., $1.50

Lobelia Erinus Gracilis
1-8 oz., 10c.; oz., 40c.

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HORSESHOE BRAND **and PLANTS**

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Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

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Ismene Grandiflora	$6.00	$50.00
Madeira Vines	1.00	8.00
Spotted Callas	3.00	25.00
Tritoma Pfitzeri	7.00	60.00
Gladioli, mixed, 1¼ in. diam.	.60	5.00

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Eight per cent. discount for cash.
Special price on large quantities.

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Arthur T. Boddington
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Catalogue and Price Lists mailed free
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Philadelphia.

ACCOUNTANT.
Robert J. Dysart, 28 State St, Boston.
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AGRICULTURAL IMPLEMENTS.
Thos. J. Grey & Co., 32 S. Market St., Boston
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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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ANGLE LAMP.
Globe Gas Light Co., 77-79 Union St., Boston
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ASPARAGUS PL. NANUS.
S. S. Pennock, Philadelphia.

ASTERS.
J. H. Lock,
41 Manchester Ave., Toronto, Can.
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BAMBOO STAKES.
Suzuki & Iida,
31 Barclay St., New York.
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BEDDING PLANTS.
J. A. Keeney, Monongahela, Pa.
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H. L. Drummer, Bath, N. Y.

BULBS AND TUBERS.
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Arthur T. Boddington, 342 W. 14 St., New York.
Tuberoses, Cannas, etc.
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Schlegel & Fottler Co.,
26 & 27 S. Market St., Boston
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J. M. Thorburn & Co.,
36 Cortlandt St., New York
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BULB FLOWERS.
W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

CALIFORNIA PRIVET.
J. H. O'Hagan, Little Silver, N. J.
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Charles Black, Hightstown, N. J.
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C. A. Bennett, Robbinsville, N. J.
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CANNAS.
Clucas & Boddington Co., 812-814 Greenwich St., New York.
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CARNATIONS.
Cottage Gardens Co
Queens, N. Y.
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S. J. Reuter, Westerly, R. I.
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F. R. Pierson Co. Tarrytown, N. Y.
Variegated Lawson, White Lawson, Daheim, Fiancee, Cardinal, Fred Burki, Victory, and all standard varieties.
For page see List of Advertisers.

CARNATIONS ROOTED CUTTINGS.
Des Plaines Floral Co., Desplaines, Ill.
For page see List of Advertisers.

Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa
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Robert C. Pye, Nyack, N. Y.
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A. M. Herr, Lancaster, Pa.

Sidney Littlefield, N. Abington, Mass.
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Nathan Smith & Son. Adrian, Mich
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H. Weber & Sons, Oakland. Md.
White Carnation, My Maryland.
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Alex. J. Guttman, 25 W. 29th St., New York.
Carnation Victory
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Henry Eichholz, Waynesboro, Pa.

William Swayne, Kennett Sq., Pa.

CARNATIONS
White Lawson.
Chicago Carnation Co., Joliet, Ill.
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H. A. Dreer Philadelphia, Pa.
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GRAPE VINES, HOTHOUSE.
R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
Strong Planting Canes, all best sorts, each $3.50

GREENHOUSE BUILDING MATERIAL.
Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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GREEN SILKALINE.
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HARDY PERENNIALS.
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HARDY ORNAMENTAL SHRUBS
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HOE, SPRING TOOTH.
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Plants tender or hardy.
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LILIES.
Plants and Cut Blooms. Hinode Florist Co., 5th St. Woodside, N. Y.
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LILY BULBS.
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LILY OF THE VALLEY PIPS.
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Vaughan's Seed Store, Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N Y

ORCHID PLANTS.
Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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PATENTS.
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New Rose Wellesley.
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Rose Killarney. Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

ROSES GRAFTED.
Montrose Greenhouses, Montrose, Mass.
All the best varieties.

Robert T. McGorum, Natick, Mass.
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SCOTT FERN.
John Scott, Keap St. Greenhouses,
Brooklyn, N. Y.
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Conrad Appel, Darmstadt, Germany Estab. 1789. High Grade Grass, Clover, and Tree Seeds

Schlegel & Fottler Co.,
26 S. Market St., Boston.
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SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y

SOUTHERN SMILAX.
E. A. Beaven.
Evergreen, Ala.

SPIRÆA JAPONICA.
Schlegel & Fottler Co.,
26 S Market St, Boston.

STEAM TRAP.
E. Hippard, Youngstown, O.

STERILIZED SHEEP MANURE.
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TREE SEEDS.
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J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.
Chas. Millang, 50 West 29th St., New York.
J. K. Allen, 106 W. 28th St., New York.
John J. Perkins, 115 West 30th St., New York.
James Hart, 117 West 30th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Young & Nugent, 42 West 28th St., New York.
Ford Bros., 111 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.
Moltz, 55-57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
John Young, 51 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Smith, 55-57 West 26th St., New York.
Bonnot Bros., 55-57 West 26th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, 1526 Ranstead St., Philadelphia. Pa.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516-1518 Sansom St., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.
Fred Ehret, 1403 Fairmount Ave., Philadelphia, Pa.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
Pittsburg Florist Ex., 228 Diamond St., Pittsburg, Pa

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August Rolker & Sons, 31 Barclay St., New York.
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PLANTS FOR EASTER.
The Leo Niessen Co., Philadelphia.
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FOUND

A place where new and old material for the complete erection or repairing of...

GREENHOUSES

can be procured in

Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hotbed Sash, Etc.

OLD GREENHOUSES BOUGHT

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Ave. BROOKLYN, N. Y.

References:
Dun, Bradstreet and Broadway Bank of Brooklyn

In writing to advertisers, mention HORTICULTURE

SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied —



Send $1.25 for the tool and you will get it by first express.

SATISFACTION GUARANTEED OR MONEY REFUNDED

Reference for my responsibility: — Dun's or Bradstreet's or Union Bank, Jackson, Mich.

E. H. HITCHCOCK, Glenwood, Mich.

Agents wanted everywhere.

In writing to advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene,* and of course better than *ordinary Lamps*

The ANGLE LAMP is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

GLOBE GAS LIGHT CO.
77 and 79 Union St., BOSTON, MASS.
New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST
28th and M Streets, WASHINGTON, D. C.,

In writing to advertisers, mention HORTICULTURE

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St. Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds.

Below we list some of the more important items:

BOILER TUBES. — Two carloads of 3½- and 4-inch good Boiler Tubes that have been used. We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value. The ends have been cut square, they have been rattled and they are free from scales and imperfections. They are in long lengths. They are just what you require for extending your Heating System.

We furnish with these tubes at small cost wrought iron sleeve couplings threaded one size larger than the boiler tubes themselves. For large quantity orders we will make special low prices. At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES. — We offer for sale the three complete Greenhouses used on the Exposition Grounds. Each Building, 22 × 300 ft., with all latest improvements, double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings. Sketch and full information on application. We will sell these Greenhouses singly.

HOT-BED SASH. — 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. — 20,000 Paper Flower Pots that have never been used. Low prices for quick delivery.

25,000 PLANTS. — All the Plants now stored in the Hot House are in first class condition. They are being properly taken care of and consist of the following: — 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternanthera, 2,000 Echeveria, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others.

LUMBER. — 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery. We are making extremely low prices in carload lots. If you are interested, send us your carpenter's bill for our estimate.

PIPE. — 10,000,000 feet of Standard Black Wrought Iron Pipe. It has seen service only during the Exposition. Sizes range from ⅜- up to 42-inch. We can furnish you pipe of any kind. Write for complete list.

GREENHOUSE FITTINGS. — Anything needed in the line, as our stock is complete. Write us your requirements. We can furnish you valves, fittings, etc.

Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

CHICAGO HOUSE WRECKING CO.

35th AND IRON STS., CHICAGO — World's Fair Grounds, St. Louis, Mo.

In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.



The Mower

that will **Kill all the Weeds in your Lawn**

If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7; No. 4—21-in. Mower, $8. Send draft, money order or registered letter.

In writing to advertisers, mention HORTICULTURE

If you offer the right goods in the right way in these columns, you will not lack for customers.

NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST



FOR SALE BY SEEDSMEN

24 sheets, 75c.; 144 sheets, $3.50; 288 sheets, $6.50 (Only 2¼ c. each)

Packed in Friction-Top Tins

Preventing Loss by Evaporation

Mfd. by KENTUCKY TOBACCO PRODUCT CO.

LOUISVILLE, KY.

In writing to advertisers, mention HORTICULTURE

INSURE YOUR GLASS

in the FLORISTS' HAIL ASSOCIATION OF AMERICA.

DO IT NOW

It is too late when you are hit. For particulars address

JOHN G. ESLER, Saddle River, N. J.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"Pecky Cypress"**

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO
Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

36 COLUMBUS AVE., BOSTON

ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

GREENHOUSE GLASS

We are taking orders NOW for late Spring Delivery. We DO NOT advice DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

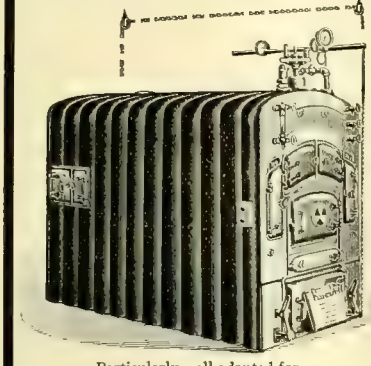
STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

"Entirely Satisfactory"

That's what prominent Florists say of the celebrated

Furman Boilers



Particularly well adapted for

Greenhouse Heating

Write us for Illustrated Catalogue and *Special Florists' Prices.* Address

THE HERENDEEN MFG. CO.

Dept. H. R. GENEVA, N. Y.

Mention HORTICULTURE when you write.

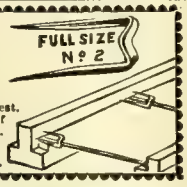
Holds Glass Firmly

See the Point

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.



In writing to advertisers, mention HORTICULTURE



Scollay Invincible **Boilers**

—FOR—

Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

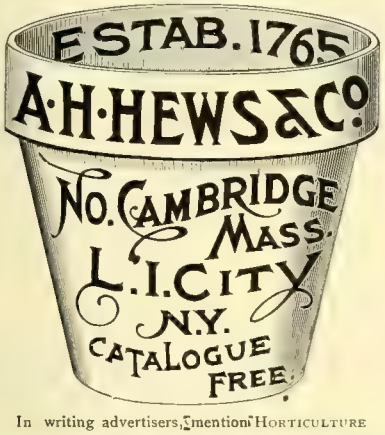
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73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices

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In writing advertisers, mention HORTICULTURE

H. H. SYLVESTER

Mason and Builder

818 Tremont Building

Boston, Mass.

Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

GLASS

Buy Now and Save Money

We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

SHARP, PARTRIDGE & CO. 22d and Union Place **CHICAGO**

In writing to advertisers, kindly mention HORTICULTURE

THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Millbrook, N. Y.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

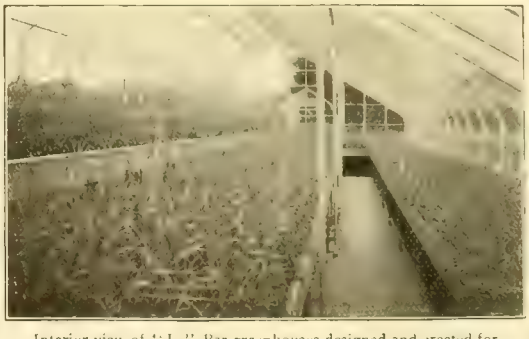
have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



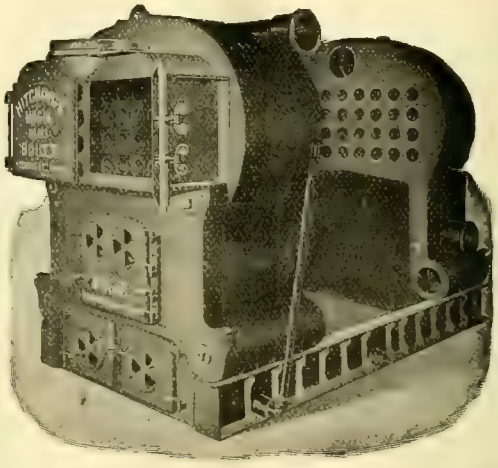
Interior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Millbrook, N. Y.

In writing to advertisers, mention HORTICULTURE

HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



NEW MOGUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK
233 Mercer Street

BOSTON
819 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention HORTICULTURE



Designed and erected for Judge W. H. MOORE, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

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HORTICULTURE

Vol. I MARCH 25, 1905 No. 17



THE WELLESLEY

Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests

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EVERY SATURDAY
At 11 Hamilton Place,
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We are still Booking Orders for Own Root Plants of the

NEW ROSE WELLESLEY

We have a very fine lot in 2½-inch Pots at

$25.00 PER 100

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NATICK, MASS.

J. N. MAY
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Special Offer to the Trade

Having decided to increase our planting of WELLESLEY we have several thousand first-class GRAFTED BRIDES and BRIDESMAIDS in 2½-inch pots, WHICH WE INTENDED FOR OUR OWN USE, and which are now offered for sale at

$10 PER 100

Thousand Rates on Application

Waban Rose Conservatories

NATICK, MASSACHUSETTS

Select List of Hybrid Perpetual and other ROSES

FOR OUTDOOR PLANTING

The Roses which we here offer are field grown stock either American grown or plants that have been imported from England and Ireland. We handle no Holland grown Roses.

These plants were all potted up into 5- and 6-inch pots, according to the growth of the variety, during December and January, stored in cold houses so that they break away naturally, making this the best possible stock for selling to the retail customer.

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American Beauty	3 00	25 00
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Baroness Rothschild	3.00	25 00
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Beauty of Watlham	3 00	25 00
Boule de Neige	3 00	25.00
Brenda	3.00	25 00
Capt. Hayward	3 00	25.00
Coquette des Blanches	3 00	25 00
Captain Christy	3 00	25.00
Clio	3 00	25 00
Common Provence	2 50	20 00
Charles Lefebvre	3 00	25 00
Countess of Oxford	3 00	25 00
Countess of Roseberry	3 00	25 00
Camille Bernardin	3.00	25 00
Dinsmore	3.00	25.00
Duke of Edinburgh	3 00	25.00
Duke of Teck	3 00	25 00
Dr. Andry	3 00	25 00
Duke of Wellington	3 00	25.00
Dupuy Jamain	3 00	25.00

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Eclaire	3 00	25.00
Etienne Levet	3 00	25 00
Fisher Holmes	3 00	25 00
Francois Michelon	3.00	25.00
Gen. Jacqueminot	3 00	25 00
Gloire de Margottin	3 00	25.00
Gloire de Lyonnaise	3 00	25.00
Gustav Piganeau	3.00	25 00
Grand Mogul	3 00	25.00
Helen Keller	3 00	25 00
Her Majesty	3 00	25 00
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Mabel Morrison	3.00	25.00
Magna Charta	2 50	20.00
Marchioness of Downshire	3 00	25 00
Marchioness of Dufferin	3.00	25.00
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Mme. Victor Verdier	3.00	25.00
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Mrs. John Laing	3 00	25 00
Mme. Plantier	2.50	20.00
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Paul Neyron	3 00	25 00
Pride of Waltham	3.00	25.00
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Rugosa	2.50	20 00
Rugosa Alba	2.50	20.00
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White Provence	2.50	20.00
Victor Verdier	3.00	25 00
Victor Hugo	3.00	25.00

Hybrid Tea and other Everblooming Roses

FOR OUTDOOR PLANTING

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Belle Siebrecht, 5- and 6- in pots	$3 00	$25.00
Caroline Testout, 5-and 6-inch pots	3 00	25.00
Champion of the World, 5 in pots	3 00	25 00
Clothilde Soupert, 4-in. pots	2 00	15 00
Clothilde Soupert, 5 in. pots	2 50	20.00
Coquette de Lyon, 5 in pots	3 00	25.00
Duchess de Brabant, 5-in. pots	3 00	25.00
Franz Deegen, 3-in. pots	1 00	8.00
Franz Deegen, 4-in. pots	2.00	15.00
Gruss An Teplitz, 4-in. pots	2.00	15.00

	Per doz.	Per 100
Gruss An Teplitz, 5-in. pots	$2.50	$20.00
Gruss An Teplitz, 6-in. pots	3 00	25.00
Hermosa, 5-in. pots	2 50	20 00
Hermosa, 6-in. pots	3.00	25.00
La France, 6-in. pots	3.00	25.00
Liberty, 5-in. pots	3.00	25.00
Maman Cochet (pink), 5-in. pots	2.50	20.00
Maman Cochet (white), 5-in. pots	2.50	20.00
Marie Van Houtte, 5-in. pots	3.00	25.00

	Per doz.	Per 100
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Mme. Joseph Schwartz, 5-in. pots	3.00	25.00
New Century, 5- and 6-in. pots	3.00	25.00
Papa Gontier, 5-in. pots	3.00	25.00
Queen's Scarlet, 5-in. pots	2.50	20.00
Safrano, 5-in. pots	3.00	25.00
Souvenir de la Malmaison, 5- and 6-in. pots	3.00	25.00
Souvenir de Wootten, 5-in. pots	3.00	25.00

Rambler, Climbing and Trailing Roses

	Per doz.	Per 100
Crimson Rambler, heavy 6-in. pots	$3.00	$25.00
Philadelphia Rambler, 5-and 6-in. pots	3.50	25.00
White Rambler, 6 in. pots	3 00	25 00
Yellow Rambler, 6-in. pots	3.00	25.00
Dorothy Perkins, 6-in. pots	3 00	25.00
Wichuraiana, 5-in. pots	2.00	15.00
Wichuraiana Gardenia, 6-in. pots.	3.00	25.00

	Per doz.	Per 100
Wichuraiana Evergreen Gem, 6-in. pots	$3.00	$25.00
Wichuraiana, Jersey Beauty, 6-in. pots	3.00	25.00
Wichuraiana Manda's Triumph, 6-in. pots	3.00	25 00
Wichuraiana Pink Roamer, 6-in. pots	3.00	25.00

	Per doz.	Per 100
Baltimore Belle, 6-in. pots	$2.50	$20.00
Prairie Queen, 6-in. pots	2.50	20.00
Climbing Clothilde Soupert, 6-in. pots	3 00	25 00
Gloire de Dijon, 5- and 6-in. pots	3.50	25.00
Marechal Neil, 5- and 6-in. pots	3.50	25 00
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Roses with Long Canes

We can supply Marechal Neil, Cloire de Dijon and Crimson Rambler in 7-inch pot-grown plants with canes about 8 feet long at $1.25 each.

NEWER VARIETIES OF ROSES

FOR OUT-DOOR PLANTING

FRAU KARL DRUSCHKI

New White Hybrid Perpetual Rose

This new hardy Rose is of German origin, and was first disseminated in 1900, and has since won many prizes and made many friends. It is the IDEAL HARDY WHITE ROSE. Its flowers, which are very large, are perfect in form and snow-white in color, with large shell-shaped petals, forming a beautiful flower. The plant is a strong, vigorous, healthy grower.

Strong two-year-old plants, $3.50 per doz.; $25.00 per 100.

NEW RAMBLER. PHILADELPHIA

A cross between Crimson Rambler and the Hybrid Perpetual Victor Hugo, it differs from the old variety in being of a much deeper, brighter and more intense color which never fades out, perfectly double to the centre. It will not only prove a valuable addition to our hardy climbing Roses, but for forcing purposes for Easter we feel certain that it will entirely displace the Crimson Rambler.

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The Famous Crimson-Scarlet Bedding-Rose

Introduced some five years ago, this reddest of all red roses has grown more in popular favor each year, and to-day is probably the most valuable high-colored, hardy everblooming rose we have. In color it is of the richest scarlet, shading to a velvety crimson as the flowers mature; of good size, very fragrant, a free grower, and most profuse bloomer, it being phenomenal in this respect. We offer strong plants.

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5-inch pots, $2.50 per dozen; $20.00 per hundred.
4-inch pots, $2.00 per dozen; $25.00 per 100..

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ON

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we disseminated Last Season?

WHAT IT DOES FOR US

It grows stronger and more vigorous than any Rose we ever grew.

It produces more high-grade and long-stem blooms than any Rose we ever grew.

It produces as many flowers as Bridesmaids planted in same house, same date, same quality of stock.

It is doing well with nearly every one that planted it last season.

It is in a class by itself and has COME TO STAY.

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ROSE SOCIETY MEETING
AT BOSTON

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HORTICULTURE

VOL. I | MARCH 25, 1905 | NO. 17

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NEXT WEEK'S ISSUE WILL BE DEVOTED TO OUTDOOR ART AND CRAFT

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Mrs. Morgan
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Mme. Chateney
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" "	6	22-24	6	1.00	12.00	
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" "	9	44-48	7-8	6.00		
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" " single	8	34-38	5-6	2.50	30.00	
" "	9	46-48	5-6	6.00		
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" "	4				1.50	
" "	5				3.00	
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" "	7			2.00	24.00	
ADIANTUM CUN.	2					3.00
" "	3				1.00	7.00
" "	4				1.50	12.00
" "	5				2.00	15.00
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" "	5				3.00	
" "	6				5.00	
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" "	5				5.00	
" "	6				6.00	
" "	7				9.00	
" MASS	5			1.00	12.00	
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" "	4				1.50	10.00
" "	5				2.00	15.00
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BOULE DE NEIGE. Pure white; free-blooming, strong, vigorous habit.
CAPT. HAYWARD. Bright crimson.
CHARLES LEFEBVRE. Bright velvety scarlet.
CLIO. Flesh color, shaded in the centre with rosy pink.
DUKE OF EDINBURGH. Vermilion.
DUPUY JAMAIN. Very bright cerise.
EARL DUFFERIN. Velvety crimson, shaded maroon.
FISHER HOLMES. Rich velvety crimson.
FRANÇOIS MICHELON. Deep rose.
GENERAL JACQUEMINOT. Brilliant scarlet-crimson.
GLOIRE LYONNAISE. Fine chrome yellow.
JEANNIE DICKSON. Rosy pink.
JOHN HOPPER. Brilliant rosy-crimson.
JULES MARGOTTIN. Bright cherry.
LA FRANCE. Bright lilac-rose, centre silvery white.
LOUIS VAN HOUTTE. Deep red, shaded with maroon.
MABEL MORRISON. White, faintly flushed with pink.
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MARCHIONESS OF LONDONDERRY. Ivory white.
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PRIDE OF WALTHAM. Delicate flesh color.
PRINCE CAMILLE DE ROHAN. Velvety crimson.
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SIR ROWLAND HILL. Port-wine color.
ULRICH BRUNNER. Cerise red, large, full, globular flower; one of the best red sorts.
VICTOR VERDIER. Deep rose; centre bright rose.
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Rosarians

Appreciate good roses and rose stocks. I sell both—QUALITY being the first requisite when buy—should be yours also

I have on hand for immediate delivery the following — and am also booking orders for *Early Fall Delivery*, the same varieties and others

	Per 10	Per 100	Per 1000
Crimson Ramblers, 4 to 5 ft	**$1.25**	**$15.00**	**$120.00**
" " 3 to 4 ft.	**1.50**	**12.00**	**111.00**

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Exceptionally strong two-year-old dormant plants; budded low on Manetti stocks

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Ball of Snow. Pure white
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Magna Charta. Clear rosy pink
Mme. Gabriel Luizet. Light, satiny pink
Mme. Plantier. White
Mrs. John Laing. Soft pink, most desirable variety
Paul Neyron. Beautiful dark pink
Prince Camille de Rohan. Velvety crimson
Ulrich Brunner. Cherry red

$1.50 per **10**, **$11.00** per **100**, **$100.00** per **1000**

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Write for price on any quantity for fall delivery

I also sell SEEDS and BULBS of Quality

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$10.00 per 100

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PRICES: — 2¼-inch pots, $9.00 per doz; 50 plants at 60c each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each
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Dormant Roses

HYBRID PERPETUAL TEA, HYBRID TEA

AND OTHERS

Selected Large Two-Year-Old Bushes
Low Budded and Own Roots

Varieties marked (*) we can supply upon their own roots, or budded

Our roses are made up in bundles of 5 each

HYBRID PERPETUAL

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Alfred Colomb
*Anna de Diesbach
Anna Alexieff
Ball of Snow
Baroness Rothschild
Capt. Christy
Cheshunt Hybrid
*Clio
Duke of Connaught
Duke of Edinburgh
Duke of Teck
*Earl of Dufferin
Eugene Verdier
Fisher Holmes
*Gloire de Margottin
*Gen. Jacqueminot
*Gen. Washington
Geant des Battailles
John Hopper
*La France
Mabel Morrison
Margaret Dickson
Mme. Charles Wood
*Marshall P. Wilder
*Magna Charta
Mme. Gabriel Luizet
*Mrs. John Laing
Paeonia
*Paul Neyron
Persian Yellow
*Prince Camille de Rohan
*Ulrich Brunner

PRICES OF ABOVE: Dormant budded plants, purchaser's selection, 65 cents per bundle of 5, $11.00 per 100, $100.00 per 1000.

VARIETIES ON OWN ROOTS, 75 cents for 5; $13.00 for 100. No less than 5 of any one variety sold.

TEA, HYBRID TEA, and Other Dormant Roses

	Per 5	Per 100
*Clothilde Soupert	75	13 00
Caroline Testout. Rose	75	13 00
Gloire de Dijon	75	13 00
*Gloire Lyonnaise	90	15 00
*Hermosa	75	13 00
*Kaiserin Augusta Victoria	90	15 00
*Maman Cochet. Pink	$0 65	$11 00
*Maman Cochet. White	65	11 00
Souv. de Malmaison	90	15 00
*President Carnot	90	15 00
*Reine Marie Henriette	75	13 00
*White La France. White	90	15 00
*Wm. Allen Richardson	1 00	17 50

MAMAN COCHET

Pink and white, 2-year-old, own root, American grown. The finest of all roses for florists, blooming outside.

Bundle of 5 for 65 cents, $11.00 per 100, $100.00 per 1000.

CRIMSON RAMBLERS, Large Dormant Plants, American-Grown

	Per 5	Per 100
First Size, 2-year-old, 4 to 6 ft. long, with many branches	$1.00	$15.00
Second Size, 2½ to 4 ft. long	$ .75	$12.00
Third Size, 2 to 2½ ft. 1 year old	40	6.50

*White Rambler (Thalia). *Pink Rambler (Euphrosyne). *Yellow Rambler (Aglaia). **Extra strong, 2-year-old plants, 75c per 5, $12.00 per 100**

STANDARD or TREE ROSES. Grafted on Rugosa Stock

Large, well-grown, selected plants in the following varieties all true to name: **Paeonia, Gen. Jacqueminot, Ulrich Brunner, Caroline Testout, Belle Siebrecht, Prince Camille de Rohan, Gloire Margottin, Mrs. John Laing, Duke of Teck, Mme. Isaac Perrier, Mme. Beraud, Crimson Rambler, 75 cents each, 5 for $3.00, 10 for $5.00, 100 for $40.00**

OTHER ROSES OF MERIT

	Per 5	Per 100
Agrippina	$ .80	$13.00
Multiflora Japonica	.60	9.00

***ROSA WICHURAIANA**

(The Memorial Rose.) Strong 2-year-old plants, **5 for 65 cents, $10.00 per 100**

***Wichuraiana Hybrids.** Strong 2-year-old, **5 for 75 cts., $12.00 per 100**

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Paul's Carmine Pillar, 5 for $1.50, $20.00 per 100

ROSA RUGOSA

Strong bushes, red or white, **5 for 65c., $10.00 per 100**
Extra strong bushes, **5 for 90c., $15.00 per 100**

ENGLISH MOSS ROSES. Assorted White, Pink, Red. Large, dormant plants, from open ground, **5 for $1.00, $15.00 per 100**

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The Modern Wars of the Roses

The meeting of the rose-growers in the New England metropolis is peculiarly appropriate to that home of the ancient Puritans. Although the stern forefathers looked upon flowers as savoring of the "vanities of this earth," yet they had some affection for this especial flower as being the emblem of England, of their trans-Atlantic home.

I have but recently told, in these columns, the stories and legends connected with many different flowers; it may, however, be permissible to repeat that the old legends say that red roses sprang from the firebrands piled around a virgin martyr in Bethlehem, and white roses from the unkindled brands around the same unfortunate young lady.

The rose was often used as a public-house sign in England, — the red rose because it was the badge of Edmund, first earl of Lancaster; the white rose because it was the heraldic badge of the house of York. Heraldic language would say that the "*Rose gules*" was the emblem of the house of Lancaster, and the "*Rose argent*" of the house of York; hence these roses were the chief badges during the terrible "Wars of the Roses," which lasted thirty years (1455–1485) and cost over 100,000 lives.

The rose has ever been the emblem of secrecy, so that if any of the rose-growers should paint the city of Boston a Liberty or Richmond color, they may be sure that their fellow-delegates (*sub rosa*) will never carry the news of it to their native towns.

As a poetic symbol the rose has been constantly in the mouths or on the pens of the poets. Shakespeare has stated that "the rose by any other name would smell as sweet," but any other name might spoil the metre of many a poem. Richard Allison once wrote —

> "There is a garden in her face,
> Where roses and white lilies grow."

In this case we may hope that the top-dressing was nothing stronger than face powder.

Scott has stated that

> "The rose is fairest when 'tis budding new,
> And hope is brightest when it dawns from fears.
> The rose is sweetest washed with morning dew,
> And Love is loveliest when embalmed in tears."

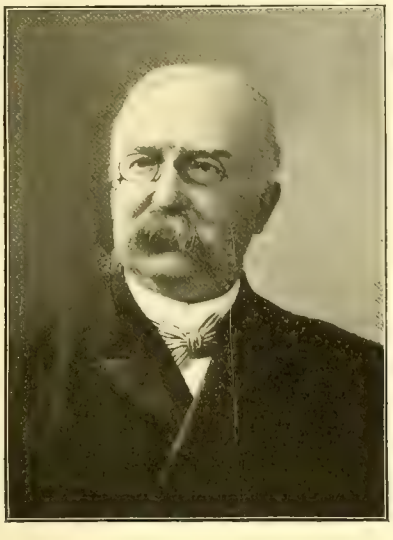
Wordsworth also vaunts "the budding rose above the rose full-blown." Were a chorus requisite for the convention, the thoughts at once fly to "The Last Rose of Summer." Should any competitor be dissatisfied with the awards, he can sing the old song by Thomas Haynes Bailey, —

> "The rose that all are prais
> ing,
> Is not the rose for me."

Should any exhibitor find his flowers too fully blown, he might wish with Keats that "the rose should shut and be a bud again."

When it comes to music that has been set about the rose, the list is so great that we do not attempt to give it. It may, however, be of interest to know that the poem which has been set to music more frequently than any other (in any language) is Heine's German one, in which he compares his lady-love to a flower. This has been set to music in more than *five hundred* different ways. Its words run, —

> "A tender, budding flower,
> So pure and fair thou art.
> I gaze on thee and sorrow
> Is stealing in my heart.
>
> "My hands I clasp above thee
> And breathe a fervent prayer,
> That God may ever keep thee
> So pure, and good, and fair."



LOUIS C. ELSON

Louis C. Elson, professor of theory of music at the New England Conservatory, is one of the bright professional and literary lights of Boston. His genial personality endears him to all who meet him and whatever comes from his pen is always interesting. His partiality to the society of the florists is only equaled by his fondness for the flowers. HORTICULTURE is highly honored in the privilege of counting Prof. Elson among its staunch friends.

Louis C Elson

Hardy Blood in Rose Hybridization

At the present time, when so many are interested in rose hybridization and so many new varieties are being sent out, I think it would be well for the hybridizers to take more into consideration the hardiness of the plant than they have done heretofore. They are too prone to work into Tea blood in preference to hybrid perpetual or the hardier roses, and it cannot fail to be a great detriment to the sale of those plants hereafter to have so much tender blood. It is a good deal like the fine Indian blood in the choice rhododendrons; where you get a finer flower you are losing in the hardiness of the plant, and when people come to buy such they are doomed to disappointment. I have hybridized a great many roses myself and I know for a certainty that the nearer you get to Tea blood in them, the more you detract from the hardiness, and if we are to encourage rose-growing among the people, we want to give them as hardy roses as we can to stand this northern climate. Those fine Tea bloods are grand in the South, but many of them succumb to our Northern winters and thereby bring disappointment and loss to many people who are looking to see them in the garden as they would see them in the greenhouse, or in a more temperate climate.

I think, also, that we should turn our attention more than we have done to hybridizing on Rosa rugosa. This rose has such a splendid constitution that there is no reason why we should not get a progeny more hardy even than the ordinary hybrid perpetual rose, of which but very few can be called perfectly hardy; they all have to be covered more or less in cold weather. I have been working a good deal in this direction and I think that I have several new varieties which unfortunately I have not been able to get ready for this rose show, but which I consider will astonish somewhat, in the way of single and double Rugosa, Wichuraiana, and Multiflora. The hybrid rose that I have called Lady Duncan is considered by all who have seen it one of the finest single roses for covering embankments. This is a cross between Rugosa and Wichuraiana, of trailing habit, and will grow 8 or 10 feet in a season. The flowers are a beautiful salmon rose. Nothing can be hardier; it stands in the most exposed places. It is much harder to propagate than some others, and that is the reason it has not been on the market.

Another which is a hybrid of Crimson Rambler and Wichuraiana, has single flowers of great brilliancy. It seems to be perfectly hardy and has stood recent winters without any covering whatever, which is a pretty good test.

I am still at work on these roses, crossing them with various hybrids and with some of our old-fashioned Scotch roses and yellow Harrison, and am very hopeful as regards ultimate results.

Jackson Dawson

Adiantum Farleyense

In a span-roofed house recently erected for Mr. R. L. Beekman by Hitchings, Mr. John Urquhart, the gardener, has succeeded in an almost incredibly short time in making a showing of Adiantum Farleyense that is exceedingly creditable. The methods adopted by Mr. Urquhart in growing this most graceful of all ferns differ considerably from those of most other growers. He does not believe in a too minute division of the crowns when starting to get up stock, because he thinks that very small crowns require a longer time in the case wherein he places them before they are sufficiently established to be repotted, and that a prolonged forcing process has a weakening effect, which becomes almost constitutional in the plant and very hard to get rid of.

On the other hand, Mr. Urquhart divides only to the extent of leaving sufficient crown to find snug quarters in a thumb pot, and when all are thus potted, he places them in an enclosed glass case, plunging the pots in spagnum moss, which retains much moisture, necessitating less water for the little plants. In every stage of growth Adiantum Farleyense loves moisture, but detests an inordinate amount of liquid nourishment during its nursery days.

The plants we have had under observation have been sparingly watered and air gradually admitted as they showed signs of growth, until when a few fronds had formed, ventilation was freely given, causing a hardier growth and making the plants sufficiently robust to be placed on the bench when repotted. Even then, whenever possible, Mr. Urquhart puts air on the house, in order to get harder and stiffer fronds than would be possible with a high temperature and much humidity, and for the same reason he shades the glass but very little. Consequently he has in this house now a splendid lot of thrifty-looking plants in four-, five-, and six-inch pots, being expressly fitted for the purposes for which they will be utilized — namely the fronds for cutting and the smaller and medium-sized plants for dinner-table decoration and for filling the dainty fern dishes so much in vogue now. When A. Farleyense is grown in not too hot a temperature and but slightly shaded, it compares favorably with A. cuneatum in endurance, besides immeasurably excelling it in luxuriance and gracefulness.

David McIntosh.

Luculia gratissima

The photographs herewith reproduced, illustrating this beautiful plant, having only recently come to our hands, we are glad to reproduce in connection therewith the brief cultural notes by George McWilliam, which appeared in one of our previous issues. There is no question as to the desirability of this old but little-known plant as a commercial plant for the holidays. Mr. McWilliam says:

"This beautiful flowering plant is one of the most useful subjects we have at the Christmas holidays. Their color and fragrance make them in much demand for house decoration. Under artificial light they show at their best. Their culture is as follows: When the plants are through flowering they are pruned hard back and the prunings used for cuttings, after which the plants are then stood in a cool, light place and syringed daily until about the first of June, when they are planted out-of-doors. Land well-manured for vegetables is a good place to plant them in. The cuttings will have been rooted and in small pots ready to plant out with the old plants. If they grow well, they need pinching about twice.

"The plants should be lifted about the last of August or the first of September, and potted in rather small pots. Soil mixed for carnations with a little sand added suits them well. After potting they should be kept in a moist close frame or house and given water freely. With a light shading for a few days they soon take root in the new soil, after which



they are hardened off gradually to about 50 degrees at night. When the flower buds are set, the temperature is raised 5 or 10 degrees at night. The pots are well filled with roots by this time, and then they should get weak liquid manure at each watering until



the flowers expand. The plants should be put in a cool greenhouse a few days before using for dwelling-house decoration, using water freely. When in the dwelling-house, they require frequent and copious waterings.

"The general effect of the plant in bloom is that of a rich pink hydrangea, but the individual flowers are longer tubed, much more graceful, and the fragrance is rivalled by but few flowers."

Geo McWilliam

Daphne indica

In this subject we have a plant that some growers think has a great future. Grown in quantity, it should command a ready market everywhere, for there is no flower can compare with it for fragrance. But the old way of growing it in pots is out of date. It should be planted out in good soil on an inside border or bed, as Mr. McWilliam has it at Whitinsville, Mass., where three plants in bush form, planted in the south end of a carnation bed, measure five feet in height by six feet in breadth, and produce from October to March some thousands of trusses each year. Many of the spikes are from a foot to eighteen inches in length, with plenty of fine green foliage, which greatly enhances their beauty in a vase. These plants are eighteen years planted, so it would take some years to get them to flower in quantity. The temperature is never over 50 degrees with fire heat.

W. Swan.

British Horticulture

A Traveler's Achievements

It is due to the generous enterprise of Messrs. Veitch & Sons that many of the horticultural treasures of the Eastern World have been introduced to this country. Thier nurseries at Coombe Wood, near Norbiton, are well stocked with trees and shrubs, which have been brought from different parts of Asia by Mr. John Gould Veitch, Mr. J. H. Veitch, Mr. Mories, and other collectors. In recent years valuable service has been rendered in the work of exploration by Mr. E. H. Wilson, a painstaking and intrepid traveller, who is now returning to this country. Since 1899, with one or two intervals, he has made a thorough exploration of China, having received his preliminary training from Professor Sargent of Boston, U. S. A., and from Dr. Henry, formerly in the service of the Chinese Customs. His last important trip was from Kiating, and although having to face the hardships of a severe winter, Mr. Wilson was able to carry out the chief object of his search, viz., the securing of Dipelta floribunda. A warm welcome awaits Mr. Wilson amongst horticulturists, who fully appreciate his notable achievements.

A Leading Lily Grower

Last week I was able to visit at Putney the nursery of Mr. William Iceton, who for many years has grown lilies for Covent Garden market and the London florist shops. Mr. Iceton, by the employment of the retarding process, is able to cut lilies of the valley all the year round. The crowns are imported from Berlin, Hanover, and Hamburg in October, November, and December. Nearly three parts of the crowns are put in a refrigerator and the remainder are "laid in" in the open ground until required. The retarded crowns are largely used after May, and it takes about three weeks or a month to secure the bloom after the boxes have been placed in the houses. There is a good demand for the bloom, but in recent years a larger number of growers have engaged in the business, and competition is somewhat keen. The prices now obtained vary from 9 *s.* to 18 *s.* a dozen bunches at Covent Garden. Mr. Iceton also makes a specialty of Liliums. Most of the bulbs are exported from Japan. Last year there was a shortage of bulbs owing to the war between Russia and Japan, but this year they are coming more freely. At this nursery, as at others in the neighborhood of London, serious damage was caused to the longiflorums and other plants owing to the severe fogs in December. This is one of the greatest trials of the nurseryman in the suburbs. Their proximity to the chief London market enables them to send all their consignments by road, but they have to pay the penalty of this nearness by the heavy fogs which make the London winters burdensome.

Profitable Mushroom Culture

Mr. R. E. Addey, a leading mushroom grower and spawn maker of Brentford, has lately shown at his stand at Covent Garden Market a remarkable novelty. One goodsized and perfectly shaped mushroom was grown, on the top of which were four smaller specimens. This is a unique freak of nature in Mr. Addey's twenty-five years' experience. He is one of the largest growers in England, having a continuous supply for market all the year round. Some time ago I learned from Mr. Addey some interesting details of his extensive business. The virgin track spawn manufactured by him is exported to America, and other parts of the globe. On one occasion, he informed me, a consignment of mushrooms were sent by him to New York. They were placed in the cold storage of the steamer at Southampton and arrived in America in first-class condition, realising 4*s.* a pound. This profitable crop is grown both indoors and out. Flat-framed beds are utilized outdoors. These are 200 feet long and 15 feet wide. Substantial planks keep the beds in shape, and these are continued about eight or ten inches above the soil surface of the bed. A light frame work is formed for the support of the galvanized iron sheets used for covering. Litter is placed over these sheets to secure equable conditions.

Some Essentials for Success

Mr. Addey considers the chief thing necessary for success is good, fresh straw manure. The manure should be properly turned, and, if too dry, moisture added at the first time of turning. For ridges he prefers one 2 feet, 9 inches at the bottom, 2 feet, 6 inches in height, and 6 inches across the top. As a casing Mr. Addey uses a friable loam in which there is not a particle of manure. The proper thickness of casing for a conical bed is 1½ inches, making it a little thicker at the bottom, and not more than an inch for a flat bed. The surface should be firm, but at the same time porous. Twelve inches of manure are placed on the flat beds at the coldest time of the year, and eight inches in the spring and early autumn. The pieces of spawn are placed in the ridge beds about six inches apart. In the flat beds the pieces — a spawn brick being divided into six sections — are inserted edge-downwards. About six weeks after spawning and landing Mr. Addey secures a good crop. As to the commercial side, he stated, "The average price of mushrooms ranges from 8*d.* to 1*s.* a pound, according to the time of year. Many years ago we used to very frequently make from 1*s.* to 1*s.* 6*d.* per pound. If the prices are lower than formerly there are greater demands and a more ready sale."

W. H. Adsett.

London, England, March 1, 1905.

The Hot-bed

At this time of year the greenhouses are full to overflowing with growing plants for the Easter trade, so that it is often a serious question how to accommodate the stock. But for this difficulty the hot-bed is a remedy. And not only is the hot-bed suitable as storage quarters for growing stock, but it is a fine place to start the various flower seeds and to harden off plants. Side crops of lettuce, radishes, parsley, herbs, strawberries, or mushrooms can be raised there.

The construction of the hot-bed is simple enough. The frame consists of boards stood on edge, and nailed together to form a rectangular structure. The rear boards should be sufficiently tall to give a slope of four inches, with the front ones high enough to give head-room for the plants. Six feet is the ordinary width of the bed, the length varying with one's needs. This frame is covered with sash, and it is well to provide shutters or mats for additional protection during cold, windy, or stormy periods. This outfit should last several years.

The best situation for the hot-bed is to the south, or southeast. If placed on a hillside, or where there is a fence, hedge, or building to the north, more heat will be available.

The heat is supplied by fermenting horse manure, and as warmth must be furnished for over two months, economy will not pay in the amount of manure absolutely necessary. As much fresh horse droppings is collected at the same time as will be required, and the long straw retained. This is piled up under cover, and turned every day for ten days or two weeks, moistened if necessary during that time. It is then ready for the beds. If forest leaves are added they will prolong the fermenting period, hence are rather essential to beds made early.

The space enclosed by the frame is excavated to a depth of 3½ to 4 feet, the earth being used to bank around it. Then the prepared material is put in, layer by layer, and tramped down, until the whole is level and solid to within six inches of the top. Some people extend the excavation a foot beyond the frames, and set these directly on top of the manure. By this method the space between the glass and bed remains constant when the latter settles. A more substantial frame is made with a foundation of brick built in a permanent position. Such a frame may be emptied during the summer, and used for a storage house.

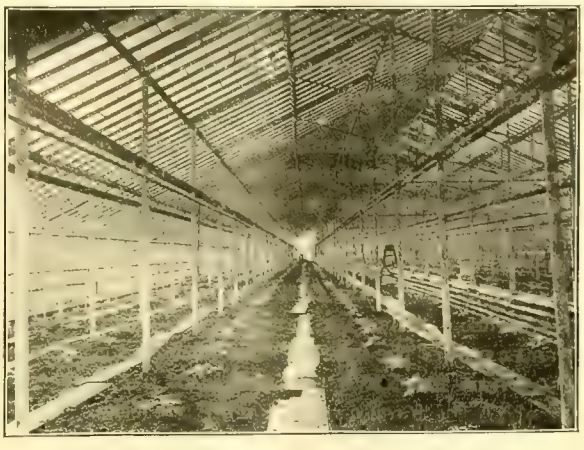
The temperature will run away up for a few days, but will soon sink to 75 degrees. Then a layer of good garden soil, put on six inches in depth, will finish the bed, bringing it to the surface of the ground. The seeds may be sown now, or plants set out, choosing bright, sunny days for this work, and having as little sash off as possible at one time

The future care is simple. Always have a chink of air on, even in the coldest weather, in order to let off the "sweat." Give ventilation the same as in greenhouses, and water when necessary late in the morning, on warm, clear days.

To many people this may appear like a makeshift, but on many large estates gardeners are obliged to furnish fruits and vegetables out of season, besides a succession of flowers all the year round, having no other means at hand than these minature greenhouses.

R. L. Adams.

An Immense Cucumber House



Herewith an interior view of one of the most remarkable vegetable-forcing houses in the country. This is 375 feet long and 80 feet wide. It was designed and built by G. M. Kendall of Leominster, Mass., and is used mainly for growing cucumbers. The picture shows a crop of cucumbers about two weeks after planting. The plants are forced rapidly by using a high temperature and plenty of available plant food. Mr. Kendall is a pioneer in the business of growing cucumbers.

John Craig

Cornell University, Ithaca, N.Y.

A Practical Help

We hope you will like HORTICULTURE and recommend it to your friends in the trade. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

HORTICULTURE

AN ILLUSTRATED JOURNAL
DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Welcome! American Rose Society.

Respect for old age should cease at the door of the rose storage vault.

The outlook for genuine advancement of the rose for this country from the basis on which the French rosarians are working is decidedly dreary. So rare is it, indeed, that we find anything worthy among the entire year's output of novelties that it seems a reasonable conclusion that for practical purposes in this country, either for forcing or for garden use, the greater part of the foreign introductions are valueless. The lesson for our hybridizers is to avoid the lines on which the foreign rosarians are working.

We have been surprised to see displayed in the windows of even the most pretentious florists' establishments during the past week, green-dyed carnations. Of all the outrages to which good flowers have ever been subjected, this is about the meanest. We might reasonably look for such monstrosities among the gimcracks offered by the curbstone fakir, but that these besmeared things should be presented seriously as stock in trade, alongside high-grade roses, orchids, and violets in so-called "leading florists'" windows, is something not easily accounted for.

The abundance of roses in the cut-flower markets at this season affords an excellent opportunity for the rose grower to make a reputation by discarding his inferior cut and shipping only the high-grade product. There is at all times a grade which is able to maintain an exclusive position and the market will come to it regardless of the piling-up which may be going on down below. The grower who has the courage to sacrifice something to make this kind of a reputation for whatever goes out with his label on it is sure to win out, and the present is an admirable time for practising this kind of courage.

A better general knowledge of roses and their requirements is needed. The florist can hardly be expected to assume the work of education, but he can do much towards it without any extraordinary effort, and it will all be returned to him in manifold ways. He can, at least, refrain from any representation or advice that is liable to bring failure and disappointment to his patrons. In selling a rose not reliably hardy he can warn his customers as to the special care it will require to endure the winter; or, in the case of a budded rose, he can instruct as to the danger from "suckers" and how to guard against it. With these two points alone he will strike at the root of more than half the cause of dissatisfaction in rose growing and accomplish much towards restoring the rose to its rightful eminence among the garden favorites.

Comment is often made on the inactivity of American rosarians and reproachful comparisons are occasionally drawn between their seeming indifference to the larger interests of their specialty and the enthusiasm of the ever-hustling carnation fanciers. But these two lines cannot fairly be regarded as parallel. He who would undertake the tedious and uncertain problem of evolving a valuable new rose — especially a forcing rose — faces a proposition much more formidable than that which confronts his friend, the carnationist, when he sets out on a similar enterprise. In the multitude of new roses sent out each season under ostentatious titles by the busy European hybridists the American rose enthusiast finds little to justify him in sacrificing the best part of his business life in the philanthropic effort to improve the rose and foster its interests and any one who does devote himself to such a task is entitled to all the support and encouragement his fellows are capable of bestowing.

Our correspondence columns reflect the well-defined awakening which is in progress at the present time on the subject of rose improvement and suggest directions in which ultimate success may be found. To the discerning observer it will not be difficult to explain the absence of the rose as a specialty from so many gardens. The public, over-fastidious through familiarity with the exquisite products of the conservatory, and greedily following the lead of the traveling agent with his gaudy lithographs, has had no place in the garden or welcome in the heart for the sturdy varieties that bloomed so generously in the old-time gardens without a thought of winter protection. High-sounding names and gorgeous pictures have ruled the day, and, as in everything else, the "new crop of fools" has been always forthcoming to squander money in cheap budded rubbish and microscopic "mail order" stuff, much of it unfitted for anything but southern climes. Of the untold millions of such material, disseminated over this country during the past quarter century, what have we to show? Mainly a disheartened public, so far as garden roses are concerned. Is it not high time for the "return to nature"? Let our rosarians give up the futile struggle to perform impossibilities, and start in to furnish the people of these northern States garden roses with the hardiness and endurance needed to withstand the climate. The cordial reception given the Crimson Rambler is good evidence that the public are ready to respond when something good is offered. As to ever-blooming qualities, it is impossible to resist the unpalatable conviction that, for the climate of the greater part of the northern United States, we must look elsewhere than to the tea blood. With the majority of people the tea rose must remain in the bedding-plant class.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

We enjoy HORTICULTURE and wish you every success for it. — F. C. W.

Accept my congratulations on the splendid success of HORTICULTURE. — J. B. C.

Please repeat the enclosed ad until further notice. It is highly satisfactory indeed. — H. A. S.

Please find herewith $1 for HORTICULTURE. It is getting better all the time. It touches subjects others have overlooked. There are none to spare of *good* magazines. I predict this has come to stay. — G. M. K.

RANDOLPH, VT., March 20, 1905
Editor HORTICULTURE, Boston, Mass.

Dear Sir: — It gives me pleasure to state that the advertisement I placed in your paper has given most satisfactory results. Would further add that HORTICULTURE is a credit to the publisher and is deserving of a grand effort on the part of those in the florists' profession (and especially those of the New England States) to use its columns to help place it in the leading position where it should be (if, indeed, it is not already there).

Wishing you continued success, I am,
Yours very truly,
H. M. TOTMAN.

THE ROSE

Though many a flower has graced the lay
And formed the theme of poets' song —
Has gently flowed in Grecian phrase,
Or tripped upon the Roman's tongue;
Yet, still, in ancient song and story
The Rose shines forth in beauty rare,
Enveloped with a halo bright,
And made so glorious, rich, and fair,
That all the flowers must yield their seat,
And lay their beauty at its feet.
Anacreon sang its primal birth,
Old Homer praised its form of grace,
Catullus boasted of its charms,
Horace, its richly tinted face;
In fair Italia glowing words,
Tasso and Metastasio sang;
And 'mong the groves of fair Cathay
The Persian Hafiz' accents rung.
The flowing tones of old Castile,
From Cameons and Sannazar,
And in our own pure English tongue
It was the signal note of war;
In many a poet's verse its beauty shone, —
Milton, the Bard of Avon, and the Great Unknown.
High valued were its flowers bright
By Helle's maids of yore;
It graced their scene of festive glee
In the classic vales of Arcady;
And all the honors bore;
And shed its fragrance on the breeze,
That swept through academic grove,
Where sages with their scholars rove —
The land of Pericles.
In the sunny clime of Suristan,
On India's burning shore,
Amid the Brahmin's sacred shades,
Or in the wreaths that Persian maids,
Sporting in bright and sunny glades,
In graceful beauty wore;
Upon the banks of Jordan's stream,
Still flowing softly on,
Where Judah's maidens once did lave,
Or where the lofty cedars wave,
On time-worn Lebanon;
The Rose is still most rich and sweet,
And wears the crown for beauty meet.
I have basked in the beauty of southern climes,
And wandered through groves of palm and limes,
Where dark-eyed Spanish girls
Would linger in their myrtle bowers,
With garlands rich of orange flowers
Would weave their raven curls,
And fasten 'mid their lustrous hair
The fire-fly's glittering light,
Which, brighter than the diamond's sheen,
Bursts on the dazzled sight.
But yet I would not give for these,
Produce of tropic sun and breeze —
For all the flowers in beauty there —
The Rose our northern maidens wear.
I've crossed the Andes' lofty height,
Its mountains, forest-crowned,
And 'mong the devious, tangled paths
Of tropic thickets wound.
In fair Aragua's fertile vale,
In Hayti's fields of bloom,
I've marked the prickly cactus tribe
Its richest tints assume.
I've passed through fragrant coffee groves,
By the tall Bucara tree,
And by the cocoa and the palm,
With the trupeol warbling free;
Upon the flower-clad turf, and where
The rich orchidia climbs in air.
But not 'mid all this gorgeous bloom,
By tropic climate wove,
Nor Florida's rich magnolia
And fragrant orange grove;
Nor the graceful vines of southern France,
Nor Italy's fair bowers,
Nor England's lofty domes of glass
All filled with gorgeous flowers;
Nor in our own wide prairie land,
With bud and bloom on every hand,
Is there a single flower that grows
Can vie in beauty with the Rose.

Then seek, in southern, tropic air,
And in our northern glade,
And in the bright and gay parterre,
And by the forest shade,
Where every flower, and leaf, and tree,
In graceful blending met,
Presents new beauty to the eye,
Of azure or of jet;
And take each blossom, rich and rare,
Which thou may'st find in beauty there;
Combine their color, form and grace,
And each unpleasant tint erase;
Then recreate the loveliest flower
That e'er shed fragrance in a bower;
Let all its sweets and charms unclose;
It cannot equal yet the Rose.

SAMUEL B. PARSONS.

AFTER ADJOURNMENT

"The weary woman stays her task,
That perfume to inhale;
The pale-faced children pause to ask
What breath is on the gale.
And none that breathes that sweetened air,
But have a gentle thought;
A gleam of something good and fair
Across the spirit brought."

Over half a million brown-tail moth nests have been collected this season in the city of Beverly, Mass., under the direction of tree warden Frank W. Hammond. As each nest contains from two hundred to four hundred live caterpillars, figure out the result in case all these moths were allowed to come to maturity and breed another generation, and you will understand the rapid spread of this terrible pest.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Rose growers report grafting done, and spring work well in hand. J. McFarland of North Easton has his first President Carnot blooms on the market, nice, long-stemmed goods. Mr. McFarland grows his hybrids in boxes, starting them about the first of February and giving them manure water from two to three times a week.

I had the pleasure of viewing a remarkable bed of violets at the establishment of Kidder Bros., Lincoln, last Saturday. For quality and quantity they were far ahead of any violets I have ever seen at this season. Mr. Kidder attributes his success to the fact that he keeps the temperature as near the freezing point as possible without actually frosting them. His carnations prove the wisdom of early planting in the house. He has a house 50×250 which he intends to fill during April.

A novelty in the strawberry line shown by Charles Lunt of Lincoln, is a barrel with two-inch holes bored in the sides, filled with rich loam and with strawberry plants set in the holes. The plants were set out last spring and grown through the summer. After being allowed to freeze, they were placed in the house in a gentle heat and at present the barrel is a mass of flowers and fruit. Mr. Lunt has several new seedling strawberries of much merit.

THOS. F. MATTHEWS.

Personal

Visitor in Boston this week: —Thos. Knight, representing Julius Roehrs Company, Rutherford, N. J., ready to talk bay trees and all other good things.

H. P. Converse of New York has bought Conyer's Manor, an estate of 600 acres in Greenwich, Conn., and will develop it into one of the finest places in this country. Harry Wild, for the past eight years superintendent of the A. W. Blake estate at Brookline, Mass., has been appointed and already assumed charge of the work on the new place as chief manager. Many staunch friends in Boston extend congratulations to Mr. Wild on his well-deserved honor.

CHICAGO PERSONALS

P. J. Foley has returned from his business trip to Montana.

Lublines & Trinz have opened a store at State and Washington streets.

A. L. Vaughan of Vaughan & Sperry is booming business in Michigan this week.

Mr. and Mrs. O. P. Bassett returned March 14 from a month's stay at Atlanta, Ga.

A. Siegel and J. E. Foster of St. Louis, H. E. Philpott, Winnipeg, Can., were recent visitors.

John Lang has returned from Germany and is again in possession of his place on Robey and Melrose streets.

The *Chicago Chronicle* calls Alois P. Frey of Lincoln Park the "Luther Burbank of Chicago." Two large photographs and a full column about his new type of cinerarias appeared in their issue of March 13th.

THE ROSE IN DECORATIVE ART

A Paper read before the New York Florists' Club by Robert Kift, March 13

When Dame Nature stirs in the early spring and arouses into life the snowdrops and crocuses, which in turn are followed by their more pretentious kinsmen, the gaudy tulips, the daffodils, and stately hyacinths, she pauses awhile to admire, and then actively and vigorously her work goes on, until the whole landscape is pictured with her beautiful art. But still she presses forward, not satisfied, until at last the crowning glory of her work appears — the Rose, the Queen of Flowers.

It is her masterpiece. She has endowed it with every virtue; it is most beautiful in form; it has almost all the colors of the rainbow; while its fragrance is most delightful. She guards it carefully, providing even an armor of thorns to protect it.

"'Tis sweet to dare the tangled fence
To cull the timid floweret thence."

Such is a brief description of the flower we honor to-night.

Almost the entire history of the roses of commerce as we know them to-day, covers but the short period since 1870. Prior to that time the camelia was the favored flower, and choice blossoms brought fabulous prices.

As soon, however, as the rose made its appearance the camelia was doomed. Bon Silène, Safrano, Marshal Niel, and La Marque, small and insignificant as, with the exception of the Marshal Niel, they appeared, they soon relegated the old favorite to the background and finally to oblivion.

The decorative features of the flower did not count for much until the long-stemmed hybrids made their appearance. The advent of Mr. Ernest Asmus's "Glory of Paris" (Anna de Diesbach) made a great sensation; this was followed by the Ulrich Brunner and the Mrs. John Laing. Then came the new Teas, the Catherine Mermet, followed by the Bride and Bridesmaid.

It was, however, that Queen of Roses, the American Beauty, introduced to the public by the Field Bros. of Washington, that placed the rose in the van as a decorative flower. Now, no important decoration appears complete without a liberal representation of this variety to add dignity to the occasion.

Peter Henderson's book on the art of bouquet making and the general arrangement of cut flowers was the recognized authority of his period. The close compact form presenting solid masses of flowers without foliage, was then the fashion, and the details of arrangement are minutely described in this work. Since then, with the great strides made in the cultivation of flowers and the production of long-stemmed blossoms, the styles have changed, the close, formal designs have been succeeded by the more graceful and natural arrangements that display the beauty of stem and foliage as well as flower.

In the garden, Dame Nature arranges her flowers in the most beautiful manner conceivable: the branches of the climbers bend over gracefully with their wealth of bloom, all, even the smallest blossom, uniting into a perfect whole, while the bush varieties throw up their single buds or clusters, that stand from out their wealth of foliage in perfect symmetry. Such effects can be produced in the ball-room or elaborate house functions, the growing rose being simulated and made to climb in any direction, and when covered with blossoms makes a capital counterfeit and beautiful decoration.

For the wedding, that most joyful time of life, there is no flower that more fittingly graces the occasion than the rose. In the church, the altar, the chancel, the windows, the pew ends, in fact, at every available point there should be seen this most beautiful flower.

The bride and her maids should carry them, and under a bower, surrounded on every hand by beautiful roses, she should stand to receive the good wishes of her guests.

The beautiful custom of greeting the débutante upon her entrance into society with the choicest flowers, has grown into prominence the past decade, and offers great opportunities for the artist. Probably no other occasion brings together such an assortment of flowers as are to be found among the hundreds of clusters that grace the receptions of the popular young buds. The rose is also found in the front ranks here, as seventy-five per cent of the bouquets are sure to be of our favorite flower.

The arrangement of flowers for the dining-table is an art in itself, and the rose easily leads in popularity for this purpose. The formal plateau or mound has given place to the more graceful arrangement in low bowls, below, or high receptacles that carry the flowers above the line of vision. When loosely arranged in such vases all the beauty and grace of the flower are brought out. They should not be so crowded as to lose their individuality, but enough should be used to get the color effect, and their quality and freshness should always be such as to leave nothing to be desired.

Tall vases of long-stemmed American Beauties are still very popular, and certainly the most effective of all roses, whether used in groups of palms, on the banquet table, or in other of the many places that seem ideal for them, and for which there appears to be almost no substitute.

The use of flowers to carry the voice of condolence to bereaved ones is a beautiful custom, and one, let us hope, that will never die out. It can hardly be classed as decorative art, yet for those who have the final disposition of flowers as they are placed before the public to-day, it is a very important branch of the business, and as much care and attention must be given, and as skilful treatment in the arrangement, as for any other occasion. Here, as elsewhere, simplicity has asserted itself, and the cluster of long-stemmed roses and the wreath, the least formal of all designs, are fast growing in popularity.

If we can believe the accounts of the extravagant use of roses thousands of years ago, and they appear to be authentic, our most extensive decorations are as nothing when compared to these elaborate displays, as much as one hundred thousand dollars having been spent by Nero for roses for one entertainment. What they sold for by the dozen may be conjectured from the following, copied from Mr. Parsons' book on "The Rose," published in 1847:

"If the Egyptians cultivated roses for transportation to Rome during the winter, they must have had very extensive plantations for the purpose.

"The exportation could not have been of loose flowers or they would have been withered long before the termination of the voyage. Neither could it have been of rooted plants in a dormant state, as nurserymen now send them to every part of the world, because the Romans had at that time no means of causing them to vegetate and bloom in the winter. On the contrary, the cultivators at Alexandria and Memphis must of necessity have sent them away in the vases and boxes in which they had planted them with that object, and when they were just beginning to break from the bud, in order that they might arrive in Rome at the moment they commenced expanding.

"At that remote period, when navigation was far behind its present state of perfection, the voyage from the mouth of the Nile to the coast of Italy occupied more than twenty days. When this long voyage is considered, and also the quantity of roses required by the Romans to enwreath their crowns and garlands, to cover their tables and couches and the pavements of their festive halls and to surround the urns which contained the ashes of their dead, it is evident that the Egyptians who traded in roses in order to satisfy the prodigality of the Romans, would be compelled to keep in readiness a certain number of vessels to be laden with boxes or vases of rose plants so prepared as not to bloom before their delivery at Rome.

"The cost of roses thus delivered in Rome must have been immense, but we do not find a single passage in ancient authors which can give any light on this point; they only tell us that nothing for the gratification of luxury was considered too costly for the wealthy Roman citizen."

What would rose bushes in bud, such as we know them to-day, look like after a three-weeks journey by sea? They must have been impregnated with the same blood as Burbank's fadeless flower; in fact, we are led to wonder if the roses of that day were roses at all, or at least such as we know them now.

It appears to have been the custom at that period to use flowers most lavishly, and particularly for dinners, and all social occasions, and for the dead.

In addition to the decorations for the table the couches upon which the guests reclined were elaborately decked with roses, as were also the floors of the rooms.

Cleopatra covered the floors of her dining rooms with rose leaves to a considerable depth, and over them placed a fine net, so that her guests might tread the floral carpet without inconvenience. It was the custom to cover the beds of the guests with roses, and some who slept under layers of rose petals were annoyed beyond measure if any of them should start to curl, indicating they were not fresh. I fear that some of their descendants are among our patrons of to-day.

The rose has many rivals as a decorative flower. The chrysanthemum, the carnation, the lily, and even that butterfly of fashion, the orchid, are all in the race for popularily. But the rose, endowed with so many points of excellence is still the one great favorite.

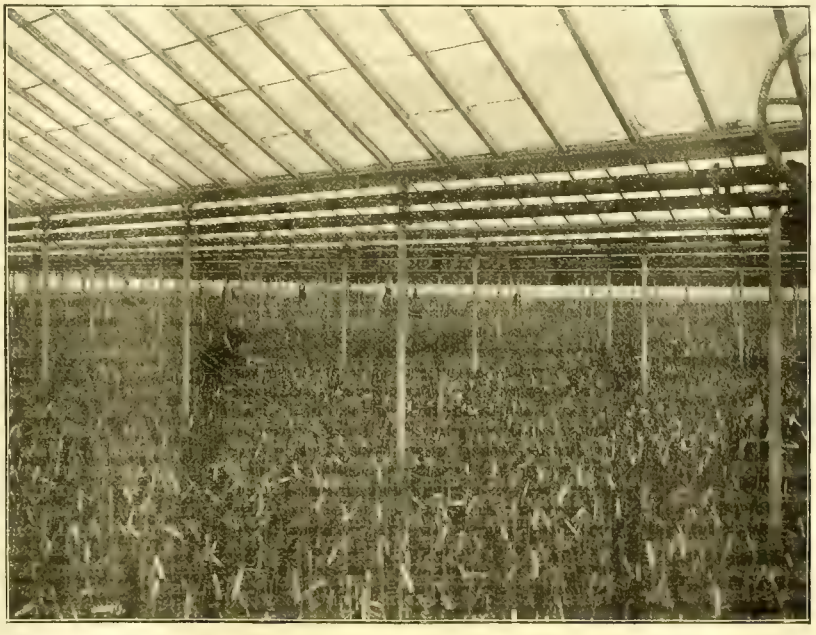
One thing more may be said of the rose that can hardly apply to any other flower, and that is its changing beauty. As a bud we admire it, and as it slowly develops until half blown, it grows more and more beautiful, until finally, when fully expanded, it takes another form and gradually fades away.

"Oh, there is nought in nature bright,
Where roses do not shed their light!
And when, at length, with pale decline
Its florid beauties fade and pine,
Sweet as in youth its balmy breath
Diffuses odors e'en in death."

Roses and Other Plants at Riverton

You may have heard that J. D. Eisele has had a divorce? No? Well, it's quite true, altho' not of the kind matrimonial — only a divorce from business for a couple of months, during which time he took a trip down to Bermuda, where there was nothing to do all day but sun one's self on the hotel veranda, smoke Havanas, and look at the blue sea glistening a quarter of a mile away. When he left there it was seventy-two in the shade; when he landed at New York it was three below. Quite a contrast.

From the foregoing you will gather that there must be more vim and energy around the Dreer establishment at Riverton now than ever, and you will not be mistaken, although it has always been noted as a high pressure factory for the production of palms, ferns, and all kinds of greenhouse stock by the million. Of late years hardy perennials have forged more and more to the front at Dreer's, and it may safely be said that these also are now being produced by the million. A notable feature in connection with the latter is that they are all pot grown. It costs more to grow them in pots, but there are several compensating features, chief of which is that they give better satisfaction to customers, as they ship better and during a much extended season. Although a 4-inch pot of, say, Papaver orientalis, chuck full of roots, may nor look as imposing as a clump a foot square, it will carry better, and in the long run give far more satisfaction to the customer.



The peony is right at the front here, and tens of thousands are stored inside at present in damp sawdust, cleaned, and divided, ready for shipment during the early spring for the benefit of those who refuse to remember that they should have got them earlier. We noted large stocks of such favorite varieties as Festiva maxima, Victoria tricolor, Grandiflora rubra, Duc de Cazes, Miranda, Argus, Tenuifolia plena, Achille, and dozens of other fine sorts too numerous to mention. Peat moss — a finely sifted grade of the Hamburg article — has been found to be the very best thing for keeping the roots plump and fresh during storage.

Among hardy plants the rose holds front rank here, of course, and is an important department. Our photograph gives a view of a batch of one hundred and twenty thousand, all in 5- and 6-inch pots, for spring sales, and just beginning to break into leaf. This section is interesting and inspiring and we can just imagine what a wealth of potential beauty is stored away in this half acre of bare branches.

Mostly bare, that is — one variety, Killarney, had a few first leaves half developed, and they were red as a poinsettia. Yes, sir; no exaggeration — a most remarkable feature of this variety. At a distance one might take these for blossoms! Killarney, as a grand hardy bedder, has been a good deal written about of late, so it is unnecessary to comment on it further at this time, except to repeat for the benefit of those who have not been following up the matter closely, that it is a Hybrid Tea, quite hardy in this latitude, an everbloomer, brilliant pink in color, and a grand new rose in every way. "God bless Ireland!"

Mr. Eisele is still an enthusiast on another hardy Hybrid Tea, Gruss an Teplitz, which he says is the reddest of all red roses and one that has given satisfaction everywhere during the past two seasons. It is a phenomenal bloomer, larger than Hermosa, very fragrant, and a strong grower.

Among the newer Hybrid Remontants special praise is given to Frau Karl Druschki, a beautiful snow-white variety from Germany. The flower is very large, with bell-shaped petals, perfect in form, and the plant is a strong healthy grower.

A magnificent stock of that little gem over which we are all more or less enthusiastic at the present time, the Baby Rambler, greeted us here and is one of the fruits of that wise and enterprizing policy of this house, a frequent trip through Europe. While on the subject of Ramblers let us not forget to mention that fine improvement on Crimson Rambler, the Philadelphia Rambler, brighter and better than the type, and the Dorothy Perkins and Farquhar, both beautiful pink sorts. The Waltham Rambler is a single pink variety from England that has excited much favorable comment both here and abroad, and is considered worthy of a place in every collection.

In this hurried sketch it is understood of course that we speak only of the newer favorites in the rose world — that being the main topic of interest to the advanced plantsman to whom Horticulture appeals. We consequently pass over the vast collection of all the main classes which are represented here: the Damasks, the Rugosas, the hardy and tender Pillars, the Bengals, the Moss section, the general collection of Teas and Remontants, the Memorials, the Sweet Briars, and so forth. Suffice it to say that if it's good, one is pretty sure to find it at Dreer's, or, to parody the New York luminary — if you see it at Dreer's, it's so. One point it is well to emphasize: no small roses for the mailing trade are grown here. Every plant is from one to three years old and well established, and intended for quite a different class of trade from that to which the mailing houses cater. The vast business done by each system shows that there is ample room in this country for both styles of production and distribution.

Leaving the roses, we note briefly a few interesting items before making a rush for our train:

Musa ensete, that grand tropical foliage plant, being raised from seed and just peeping above the soil.

Thatcher's Pygmy Asparagus, or, to give it its really truly name, Asparagus plumosus nanus compactus, a bench of it in 2½-inch pots, just right for fern dishes.

Thirty-two different kinds of Marantas and a whole host of other stove plants such as Alocasias, Difienbachias, Phyllotæniums, etc. These are in more demand of recent years, and the collection has been enlarged to meet the emergency.

Limnocharis, the Water Poppy, with its beautiful single yellow blossoms in full array in one of the houses of tender aquatics. Here the workmen are constantly dabbling like ducks, propagating, shifting, cleaning. We asked one of them if they finally got web-footed. His laconic response was to hold out *his hands*, with the fingers extended. The boss gave him a quizzical look, and remarked, half-aside, "The gentleman said *web-footed*, my lad, what do you show him your hands for?" — "Why, sir, these are our feet in this department."

An enormous stock of Boston fern, fine, clean, stock which Mr. Eisele says is still popular, although he believes Scottii is going to supersede it. Although Scottii propagates more slowly, more can be grown to the square foot — something like three to one.

Pteris Childsii. This is the Farleyense among the pterises, and a most graceful and charming plant.

Piersonii, a nice lot; we were told this is now selling better. It is in great demand on the Pacific coast where it is grown extensively out of doors.

Camellias in 5- and 6-inch pots — a

big stock in bud and bloom, red, white, pink, variegated. The demand for these is mostly from the south, although they are coming in again to a limited extent elsewhere.

Adonis Davurica, fl. pl., in bloom in cold frame; it's beautiful golden yellow blossoms very charming in the crisp sunshine of mid-March. Bloomed out of doors February 5th this year, and is undoubtedly the earliest spring flower. It is the Japanese emblem of "good-luck," and might be appropriately re-christened here as the "Japanese Shamrock." I took a specimen to P. S. Dooner on St. Patrick's Day, thinking he would feel interested and pleased; but found to my dismay that I had run up against a pro-Russian. Dear, dear!

Iris pallida variegata, a most beautiful green and yellow variegation, the handsomest thing you can imagine; superior in some respects to Pandanus Veitchii. Think this belongs to the Dalmatica section.

Before going we wanted to take just one glimpse of the fifty thousand azaleas for Easter which have been such a feature in the past. We were met with a head shake, apparently negative. "No?" "Non!" "Can't we just take a look?" "No." "Why?" "Well, you see, the fact is, we haven't any this year. We thought Easter being so late and the height of our busy season then on, we would simply be unable to handle them, and that we had better leave them alone altogether."

As the full significance of this fact in connection with the azalea supply for the Philadelphia market strikes you, perhaps you will get a hustle on to pick up the necessary supply somewhere else. There's nothing in sight, so far as I know, to take the place of that Dreer fifty thousand. Look out for sky-rockets!

GEORGE C. WATSON.

Philadelphia, March 17, 1905.

THE ROSE GARDEN

Read before Montreal Gardeners' and Florists' Club by Thomas Pewtress, March, 6, 1905.

Mr. President and Fellow Members: The subject that most appeals to my mind at the present time is that of the rose for outdoor cultivation or what we may call hardy rose. By hardy I mean those varieties that I consider will stand the climate of Canada in the province of Quebec, and come through the winter to bloom as only the rose can bloom in the month of June. To take up this subject and treat it as it should be treated would take up the remaining nights of this year and next, but I will start with a few simple facts concerning this very large and beautiful and interesting family. There are supposed to be about 250 species, but they may be brought down to about 30 or 40 distinct species. Those I remember most distinctly, and probably some here may share that memory, were the ones that used to grow by the lanes and in the hedge rows of the old country, the soft young shoots of which we boys used to consider a dainty morsel, the Rosa canina or Dog Rose. Since then I have spent days making briar cuttings from this same variety which I consider the best for hardy roses, much better than the seedling briar or Manetti. The species that interests us most is Rosa centifolia, or the old Cabbage Rose from which have sprung so many beautiful varieties, and while on this subject I may say that I am of opinion that a class of roses could be raised from the wild Canadian rose, crossed with Rosa spinosisima or Scotch rose which is very hardy, and by again crossing with any hardy H. P. Always using the native rose as seed bearer a hybrid may be raised that would not require protection in winter. But this subject would have to be taken up and worked out by men with means and time which the florists and gardeners have not to spare for it. I will now pass on to the hybrids with which we are familiar. First in point of numbers come the hybrid perpetual flowering, but I should not put that first in importance as I consider the new hybrid Teas are the roses of the future, for freedom of flowering and beauty of flower. They combine the H. P. and Teas and I consider them an improvement on both, having the broad petals of the H. P. and the long bud of the Tea, and they open out well in water when cut in the bud state in the morning; this is much in their favor, as roses do not stand the burning heat of a clear Canadian summer day very well.

In addition to the H. P. and H. T. there are Hybrid China, Hybrid Bourbon, Hybrid Polyantha, Hybrid Rugosa, and last, but not least, the Hybrid Sweet Brier, handed down to us by Lord Penzance.

Of the Hybrid Perpetual I consider the following the best for this place, having proved them for two years, and some have been here for ten years and are strong and healthy now and throw off some very fine flowers, viz. Alfred Colomb, Augustine Guinoisseau, Duke of Edinburgh, Gen. Jacqueminot, Henrich Schultheis, Jules Margottin, John Hopper, La France, La France de '89, Frau Karl Druschke, Margaret Dickson, Marie Baumann, Marquise de Castellane, Mrs. John Laing, Prince Camille de Rohan, Reynolds Hole, Ulrich Brummer, Victor Hugo. Hybrid Teas: Bell Siebriecht, Bessy Brown, Kaiserin Augusta Victoria, Mme. Abel Chatenay, Caroline Testout, Souv. du Pres. Carnot, Duchess of Portland, Mildred Grant, Lady Moyra Beauclere, Antoine Rivoire, Lady Battersea, Marquise Lita. Hardy Teas and Noisette, Anna Ollivier, Catherine Mermet, Francis Kruger, Hon. Edith Gifford, Jean Ducher, Mme. Hoste, Maman Cochet, L' Ideale, Mme. Pierre Cochet. Hybrid Bourbon, Mme. Isaac Peirre. Hybrid China, Laurette, Messimy, Mme. Eugene Resal.

Polyanth Ramblers, Thalia, Helene, Euphrosine, Crimson Rambler. Aglaia, Dorothy Perkins. Polyantha Dwarf, Anne Marie de Montravel, Cecile Brunner, Gloire des Polyantha, Mignonette, Perle d' Or, Paquerette. Moss Roses, Blanche Moreau, Crested Moss, Old Pink. Rosa Rugosa, Crimson and White. Striped Provence, York and Lancaster. The new single Tea roses of Messrs. Dickson are a class to themselves and are very free flowering. Irish Beauty, Irish Modesty, Irish Pride, Brightness, Star, and Glory. Also the beautiful sweet-briers of Lord Penzance.

I know I have omitted a great many good things, but the foregoing varieties would make up a very choice collection. As regards culture I consider roses should have a garden to themselves in any place, large or small. They want a sheltered spot but not under other trees. Any situation that has a wind break will suit them. They like plenty of air, but will not stand the full force of a west wind blowing them and bruise ing their young shoots. The soil is a very important item in rose culture. If the natural soil is very light I would advise some very heavy clay loam to be well mixed with it, if the light soil can be removed altogether so much the better and a compost of loam and rotten manure made to take its place. The ground should be trenched two and a half feet deep, and cow manure mixed with the subsoil, then eighteen inches of the compost put over the surface. The autumn is the best time to prepare the ground, and the spring to plant.

While planting have at hand a barrowful of soil well pulverized, make a hole for each plant and use the soil to plant in, taking care the roots do not come in contact with any manure. Many failures result from this cause, as when the plant throws out young roots they strike the manure instead of soil, and the manure being too strong for them they just die away again. Deep planting should be avoided. This often causes failure. It is better too light than too deep. As far as I have been able to judge the union of the plant should be about an inch below the surface of the soil: of course I am speaking of roses on seedling brier or brier cuttings, stock which I consider the best to use. The roots should be cut back with a sharp knife to about nine inches, and bruised or broken roots removed altogether. After planting, the ground round the plants should be made as firm as possible, by treading if at all practicable. Now for pruning: this again requires care and judgment; if the plant is not pruned hard enough there will be too many blind shoots, robbing the plant and doing no good. If the plant be at all weakly it will require harder pruning, but a vigorous, strong plant would possibly do best with lighter treatment. I think pruning should be done as early as possible, that is, as soon as they can possibly be uncovered. If the sap has risen too much, the plant will bleed badly and weaken itself. It is impossible to say exactly when to uncover the roses, but the end of March, a fortnight earlier or later, according to season. I will not deal with insect pests as you are all familiar with them and their remedies.

Our mode of covering for the winter has been to first earth up the plants with six or eight inches of soil taken from between the rows, then pry down the roots in a row, or tie the first one to a stake and tie each rose to its neighbor, then put on a heavy mulch of manure with the droppings well shaken out of it. This to prevent heating should the weather turn mild afterwards. It is better to uncover as early as possible after the snow goes. Roses will bear fifteen to twenty degrees of frost.

"In rose-growing as in everything else, earnestness and industry, born of love, must achieve success."— DEAN HOLE.



Rose Mme. Lombard as a Standard at Pasadena

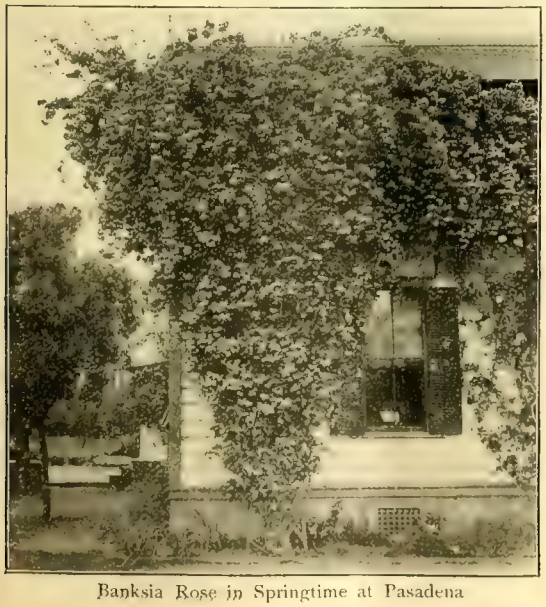
How the Roses Grow in California



Lamarque Roses at Pasadena



Roadside Roses at Pasadena



Banksia Rose in Springtime at Pasadena



Lamarque and Yellow Banksia having a Good Time at Pasadena

Courtesy of the Chase Rose Company, Riverdale, Cal.

AMERICAN ROSE SOCIETY

Enthusiastic Meeting and Magnificent Exhibition in Boston

GREAT CROWDS THRONG THE HALLS OF THE MASSACHUSETTS HORTICULTURAL SOCIETY

Many Visitors from All Sections

The weather man saved his choicest brand of spring weather for the opening of the exhibition to which rose lovers have been looking forward, and clear skies and balmy air greeted Boston's distinguished visitors. Thursday forenoon was occupied in the work of unpacking and staging exhibits, and in the exchange of greetings between old friends, and when the appointed hour arrived everything was in readiness for the judges' examination.

The display of roses can be safely pronounced the most comprehensive ever staged at this season of the year on the American continent. Especially admired was the group of ramblers from M. H. Walsh. The carnation growers also made an unprecedented display of high-class flowers. Orchids were also shown in dazzling array. In the plant groups for the Massachusetts Horticultural Society's prizes, the cyclamens and cinerarias were, as in past years, absolutely invincible. The large exhibition hall was a perfect riot of color in acacias, azaleas, bougainvilleas, and bulb flowers. The full list of prize awards will appear in our next issue. Just as we close the forms the news reaches us that the Lord & Burnham cup for best fifty American Beauty roses stays in Boston for this year, having been won by Waban Rose Conservatories.

At 11 A.M. on Friday, March 24, the society convened in annual session. The address of President Montgomery and reports of secretary and treasurer were presented and are given herewith. The address on hardy garden roses by M. H. Walsh, and other proceedings of the Society will appear in full in our issue of next week.

Among the visitors are F. R. Newbold, Poughkeepsie, N. Y.; S. S. Pennock, J. L. Pennock, A. B. Cartledge, Philadelphia; Charles Ingram, Westerly, R. I.; A. Farenwald, Roslyn, Pa.; Peter Crowe, Utica, N. Y.; P. M. Pierson, Scarboro, N. Y.; J. B. Nugent, Jr., F. H. Traendly, W. F. Sheridan, New York City; F. R. Pierson, Tarrytown, N. Y.; T. McCarthy, Providence, R. I.; J. S. Hay, Philadelphia; J. F. Huss, Carl Fohn, and Alex Cumming, Hartford, Conn.; J. F. Struck, Summit, N. J.; Thos. Knight, Rutherford, N. J.; A. H. Langjahr and Mrs. Langjahr, New York; A. J. Guttman, New York; Robert Simpson, Clifton, N. J.; Frank Moore and daughter, Chatham, N. J.; Harry O. May, Summit, N. J.; Frank McMahon, Seabright, N. J.; F. Lautenschlager, Chicago; D. MacRorie, South Orange, N. J.; Paul Dailledouze and neice, Flatbush, N. Y.; Benj. Hammond and daughter, Fishkill, N. Y.

Address before the American Rose Society

By Alexander Montgomery, President, at Boston, March 23, 1905.

We have met again to take note of our progress and do homage to our queen, and although we have hardly made the progress that the Rose Society is entitled to, considering the vast amount of capital invested in the business and the number of able men who have made the cultivation of the rose their life work, yet I think that we begin to see light ahead. There have been suggested various reasons to account for the slow progress that this society has made. It has been charged against us that we are not national in that we have failed to cover the principle cities of the country, but, with patience on the part of our critics, and with the coöperation of those to whom this society has a right to look to for support, we will yet visit them all. The few pioneerswhohave done so much to nurse the young society along are entitled to our gratitude for work done, and when the time comes for the Rose Society to start on its peregrinations, I think I do not err in saying that it will have the hearty coöperation of those who have stood by it thus far. Distance will not diminish the interest in the flower of flowers, nor the society which stands for its advancement.

The rose has not lacked for enthusiasts any more than the carnation, but it has missed that incentive to bring rose men together that the carnation men have had, namely, something new. The shows have had but little variety, practically the same few varieties were forthcoming year after year; a little larger or smaller as we happened to carry them in our minds, or whether they happened to be our own or the other fellow's flowers, but evidence is not wanting that this will all be changed in the near future and we expect to again hear the cry go forth as it did in '61, but this time, thank God, it is not the soldier but the enthusiastic rosarian who raises the cry, "On to Richmond."

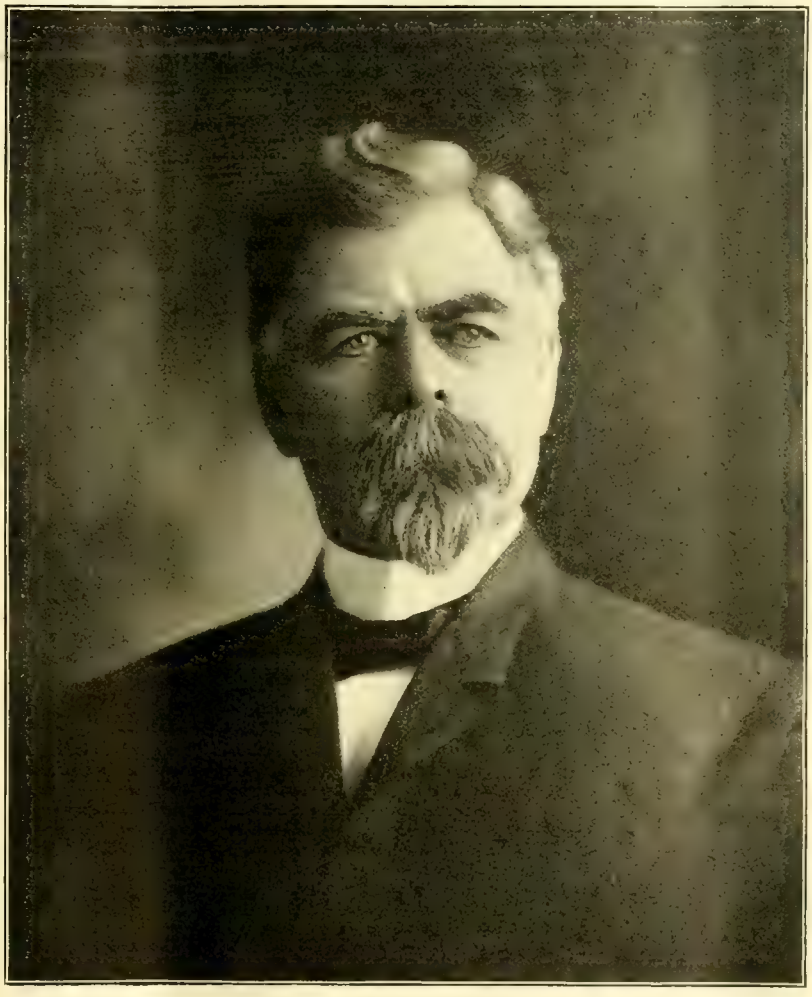
The American rose-grower has at last awakened to the fact that if a race of roses adapted to his needs is to be forthcoming, it must be done by himself. He has paid, in the past, thousands of dollars for European varieties that were seldom suited to his requirements, notwithstanding that they might be all that the raiser claimed for them when growing under their own conditions. This applies in large measure to roses for out door cultivation as well as to those grown under glass, and I am inclined to think that the former is the larger field for the hybridist, and with a reasonable amount of encouragement, I predict that the near future will see commendable progress made in a truly American type of roses adapted to the climatic conditions found here. It should be the duty of this society to encourage in every way possible the rose hybridist, as in large measure the future of the rose society will depend on him for the stimulating interest created by having something new. The commercial man ought to be alive to the fact that if the rose is to hold the place of honor and profit, he must have something to keep the buying public from becoming tired of seeing only the few familiar old varieties, however meritorious they may be.

A proceeding that I think would be of especial benefit to the introducer and buyer of new roses, would be for this society to appoint local committees at the large centers, after the method of the Chrysanthemum Society, to whom flowers could be sent to be judged according to the scale of the American Rose Society. For convenience this could be done at the various fall shows, and being judged by the official scale would be of value to all. The same committees could visit the new claimants in their home quarters and report on their winter qualities.

These judges could be appointed by the executive committee and the chairmen of these committees, or as many of them as were required, could be the judges at the annual show.

Now a word about the show itself. The schedule needs to be practically rewritten and adapted to the particular section of the country to which the show is to go the following year. A preliminary schedule should be sent out in the fall, otherwise the growers of pot roses are largely eliminated, and it will be in evidence at the Boston show that this can be made both an interesting and educational section of our shows. If possible a meeting of the executive committee should be held during the convention of the Society of American Florists, otherwise it will be almost impossible to get a majority of them together later in the season, as they are and should be men from wide apart sections of the country and find it difficult to leave their business later on.

In conclusion, I would ask one and all to stay and take part in this meeting, and if they can offer anything for the good of this society it is their duty to do so. To the young men I would extend a pressing invitation to take part in these proceedings, and if with their young and progressive ideas they can show us wherein a part of the machinery of this society has worn out or become obsolete, I promise them that to the best of my ability I will assist them to have it replaced by more modern works. Progress should be the hailing sign of this society, for the only place the American rosarian can afford to sit is in the very prow of the vessel, even at the risk of an occasional wave splashing over him.



Alexander Montgomery,
President of the American Rose Society

Secretary's Report

Mr. President and Members of the American Rose Society,

Gentlemen: — I have the honor to make the following report as secretary since the resignation of Mr. Barron last fall.

The number of members on the list when it came to my hands was 191, of whom 36 were life members, and 155 annual members. The majority of the latter had paid no assessments for two years or more. Bills were sent to all and the returns have been quite satisfactory, everything considered, as the treaturer's report will show. In the meantime five new life members and sixteen annual have been added.

Silver medals won two years ago, at the Anandale Rose Show by Crumwold Gardens and at Lenox, Mass., by Giraud Foster,have been struck off and sent to their owners. Through an error in the schedule, a silver cup was awarded at Poughkeepsie the same year, instead of a medal to F. Heeremans of Lenox. Mr. F. R. Newbold, who was president of the American Rose Society at that time has generously provided the cup and it has been forwarded, suitably engraved, to Mr. Heeremans.

The sentiment all over the country towards this Society is extremely cordial so far as I have been able to learn, and the outlook is most encouraging for the organization and the objects for which it stands.

Wm. J. Stewart, *Secretary.*

Treasurer's Report

Summary of the Report of the Treasurer, J. N. May ;

Receipts

March 13, 1903, Balance on hand	$971.12
Annual Dues	442.20
Life Membership	250.00
Premium, R. Scott & Son	50.00
Premium, M. W. Walsh	25.00
Premium refunded by B. Dorrance	100.00
Interest on Life Mem. Fund	96.56
	$1,934.88

Payments

Premiums	$782.00
Secretary's salary	100.00
Postage, cash and stationery	82.08
Medals and engraving	11.25
Life Mem. Fund	250.00
Balance, Mar. 23, 1905	709.55
	$1,034 88

NEWS NOTES

The greenhouses of F. C. Dowd at Madison, Conn., were totally destroyed by fire on March 13.

L. J. Kreshover is one of the appraisers in the assignment of Sigmund Geller, New York City.

W. B. Perkins, formerly at Becker's, has opened a flower store at 1880 Massachusetts Avenue, Cambridge, Mass.

Thomas M. Ulam & Co., Pittsburg, Pa., were closed by the sheriff on March 17, but it is hoped by many friends in the trade that a satisfactory adjustment may be made and the business allowed to continue.

NEWS OF THE CLUBS AND SOCIETIES

On Saturday, March 11, there was viewed by thousands of people of Cincinnati the greatest flower show that has ever been seen at the club rooms of the Cincinnati Florists' Club, and, as E. G. Hill remarked, in point of quality one of the finest shows this country has ever seen. The flowers shown were much better than were shown at Chicago during the national carnation meeting the past winter.

The exhibitors and what they staged are as follows: —

E. G. Hill & Co., five vases, that in their respective classes won. first, with red, variegated, and six commercial varieties one hundred mixed, and third wth light pink. The Chicago Carnation Company made the finest display that has ever been seen in Cincinnati, but unfortunately the rough handling at the hands of the express company and the limited time given to Secretary Murphy and E. G. Gillett to stage it caused it to lose some of its deserved lustre. This display was to a great extent the centre of attraction during the entire afternoon. The winnings were second on dark pink, variegated, and six commercial varieties one hundred mixed flowers, and third on white. Richard Witterstaetter showed the finest lot of seedlings that has ever been seen here. His Aristocrat, Afterglow and Valentine all scored from 91 to 95 points, aristocrat easily winning the S. A. F. silver medal, scoring 93 points. He took first on white, light pink and dark pink. First, second and third with seedlings, and first in general display. Mr. Honaker of Lexington, Ky., took second with Enchantress, and third with Lawson. J. W. Rodgers staged five vases that ranked high. He received third on six commercial varieties, one hundred blooms mixed. J. A. Peterson's plant display was very creditable. H. Weber and Sons, Oakland, Md., showed My Maryland and a variegated seedling, taking second for white and the S. A. F. bronze medal with Maryland, scoring 91 points. C. C. Murphy showed three vases of promising seedlings, W. E. Hall showed a fine red seedling, George & Allen showed Enchantress, and Ed. Rusch took third with vase of red. Theodore Bock had the hardest task he has ever undertaken, to adjust the prizes; there were six entries of Enchantress, and it was difficult to decide where to place the blue ribbon, and it was the same in all entries. J. W. Rodgers, who had charge of the show, and who has watched Mr. Bock render decisions for the past five years, said he never saw him spend so much time trying to place the premiums, as he did at this show, and it is no exaggeration to state that every vase that was staged was an exhibition lot of flowers in every sense of the word.

At 6 P.M. the local florists tendered a banquet to the visitors, at the Gibson House. E. G. Hill responded to the subject of Exhibitions. He spoke very fluently on what the European people were doing to get their products before the public, especially in cut-flower line. He praised the spirit and energy that is being put into the Cincinnati Florists' Society in this direction, predicting that great results for the welfare of floriculture will undoubtedly follow. The Society presented Judge Theodore Bock with a meerschaum pipe and cigar-holder smoking-set, President Ben George making the presentation speech.

At 8.30 the regular monthly meeting was called to order. After routine business was taken care of the president took the floor. He praised the board of directors, also Judge Bock for his efficient work, and thanked all of the exhibitors for what they had done, stating that he had a realizing sense of the fact that co-operation had crowned the past year with unprecedented success. Treasurer J. W. Rodgers, who was chairman of the finance committee, stated that the subscriptions were mostly all paid in, and also urged upon the stand-holders the desirability of their contributing liberally towards the same so as to continue the shows at the club-rooms, as the storemen will give a liberal sum to have the shows taken to a more central location, which will be very detrimental to the flower-market trade. E. G. Gillett and William Murphy urged the necessity of the Society getting ready to entertain the S. A. F. at the twenty-fifth anniversary, which was unanimously favored. R. Witterstaetter took the floor and with his usual generous spirit presented the Society with 50 per cent of his prize money, which amounted to forty dollars. A vote of thanks was extended to every contributor to the exhibition and the exhibition fund.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The meeting of this club on Tuesday evening, March 21, was largely attended, notwithstanding the storm, there being between sixty and seventy members present. There were more or less routine matters to be disposed of, as usual, but the main business and entertainment of the evening was to listen to a talk by William H. Elliott on what he had seen on his recent trip to Bermuda and the West Indies. Mr. Elliott's description of the islands, their vegetation, their people, buildings, social customs, etc., was exceedingly interesting, and all who were present must have felt well repaid for the effort. He was particularly impressed with the bougainvilleas, crotons and acalyphas in Bermuda. Visited several lily farms and found all stock more or less diseased. He made special mention of the quantities of tobacco being grown under cloth at Porto Rico and gave some interesting reminiscences of Havana and its fortifications.

An invitation was received for the club to visit the greenhouses of E. N. Peirce & Sons at Waltham, previous to Easter.

Vice-president Patten occupied the chair, president Wheeler being unable to attend.

James W. Newman of Boston has made an assignment, with liabilities $7,619 and assets $7,000. This name should not be confused with that of J. Newman & Sons



W. J. STEWART, Secretary



F. R. NEWBOLD, Vice-President



J. N. MAY, Treasurer

Some of the Active Workers



PETER CROWE, Judge

Of the American Rose Society



W. F. SHERIDAN, Judge



M. H. WALSH, Essayist



J. F. HUSS, Judge

A Notable Orchid Collection



The orchid establishment of Mrs. George B. Wilson, at Castle Knoll, near Philadelphia, is now under the charge of Charles J. Bond, a recognized orchid expert of high attainments. There are fourteen houses in the range, well located to receive full sunlight, and the contents are in fine condition as the illustrations herewith given will show.

The collection of cypripediums began with some of the gems of the Corning collection years ago. Among the noteworthy species to be seen in the house shown in the illustration are C. Mandæ, C. callosum Sanderæ, C. Lawrenceanum Hyeanum, C. Harrisianum albens, C. tonso-Rothschildianum, C. barbato-Rothschildianum, Lord Derby, A. de Laresse, Mahleræ, and other Rothschildianum hybrids yet unflowered. The bellatulum section is represented by C. Charles Richman, Laurebell, Rowena, Chapmanii, barbato bellatulum, b. giganteum, b. album, and other gems including the rare C. Corningii. The two forms of C. Charlesworthii album are here at home, also C. Morganiæ, Youngianum, Memoria Moensii, Swinburnei, Alice, different forms of C. Calypso, and many others.

Special mention, however, must be made of the C. insignes. Grown in a cooler house, well up to the glass, they thrive splendidly, the northern aspect of the house making very little artificial shading necessary and abundance of light and ventilation tending to insure a good crop of bloom. The yellow group is very complete, comprising — C. insigne Sanderæ, Sanderianum, Dorothy, Youngeanum superbum, citrinum, Amesiæ, Lindenii, Ballæ, Lucianæ, Statterianum, Ernestii, Laura Kimball, Cobbianum, Lutchyanum, Millie Dow, Mrs G. B. Wilson, and aureum. Among the darker forms are Harefield Hall, Dominianum Nilsonii, many fine forms of Chantinii, etc. Looking down the house from the entrance, the white-tipped dorsal sepals and the bewildering array of bronze and golden-hued pouches make a very charming display. Two large houses are devoted to cattleyas, the Trianæ being perhaps the most important, and during their flowering season, from Christmas until well into March, are the admiration of all visitors. The house illustrated is the smaller of the cattleya houses and was photographed on February 20.

The C. Trianiæ are of specially selected finest types. A truly grand variety is Trianæ virginalis Castle Knoll var., sepals and petals white, throat delicate sulphur yellow, with just a faint tinge of color on the labellum, and the whole flower beautifully fringed.

A smaller house containing some 150 plants of Lælia pupurata will be worth visiting in the early summer. Another house is filled with L. anceps alba, 400 vigorous plants just commencing to grow. The next division is stocked with some 18 large pieces of Cœlogyne cristata alba, a quantity of the colored types of L. anceps, and a large batch of Lycaste Skinnerii.

The seedling house is replete with hybrids, from the seedling stage (of which there are 700) to plants in 12- and 14-inch pans. Among the latter are Lælio-Cattleya callistoglossa, L.-C. Henry, Greenwood, Nysa, La Fontaine, Grand Duchess Elizabeth, and smaller plants of L.-C. Canhamiæ, Amesiana, Pallas, and L.-C. cinnabrosa. A vigorous piece of L.-C. Bella highly prized, was purchased from the Corning collection, where it had been under the care of the late Mr. Grey for a number of years. It is perhaps the first piece of this meritorious hybrid imported this country. Of the various white to forms are C. Gaskelliana alba, Skinnerii alba, Harrisoniæ alba, Percivalliana alba, and several plants of intermedia alba.

The collection of dendrobes is small but growing; it comprises many fine hybrids of the D. nobile group and a number of seedlings soon to reach the flowering stage. Among the D. Phalænopsis Schrœderiana is the exquisite pure white form carrying three good spikes, flowering unusually late this year.

About 200 Phalænopsis are suspended in baskets from the roof of the East Indian house. In addition to the usual showy variety of this genera is the almost unique P. Harriettæ soon to flower, and a healthy piece of P. Sanderiana alba. Vandas, Ærides, Angræcums and other subjects from the East thrive in this house. Some forty plants of Vanda tricolor and its variety suavis, are showing spikes.



Towering above everything is an enormous Stauropsis gigantea, near to which is an exceptionally fine plant of Renanthera Lowii having six fine growths and being without doubt the largest specimen in any private collection in this country.

A World of Roses



From Bengal, shimmering in tropical fragrance; from turban'd Persia, redolent of poetry and romance; from imperial China, monarch of the centuries; from far Japan, land of the rising sun; from modern France, England, and America, from the pole to the equator, east and west, north and south, in every spot where civilization has found a lodgment, come roses: big roses, little roses, roses of every color; some perfumed with the fragrance of ecstacy, some daintily tea-scented, some charming with color alone; all gathered in their thousand and one variations of kind, habit, form, and color in the seventy crystal palaces which constitute the regal court of the Queen of Flowers in America, situated in a charming corner of rural Pennsylvania.

Do you doubt it? Do you opine that imagination has conjured up this fair vision and spread before you an ephemeral Elysium? The reality is as solid and true as the everlasting hills. Go and see for yourself. Take the prosaic Pennsylvania railroad at Philadelphia and journey forty miles southward into Chester County, drop off at the primitive but picturesque village of West Grove, go a mile to the southeast, and present your card at the portals of the Dingee & Conard Company's "Home of Flowers," and you will find there everything I have told you and more.

From P. Joseph Lynch, the general manager, down through all the gradations of captains of industry and captains of finance, captains of the house, and captains of the horse, to old Pat, who sifts the soil and wheels the barrow and does it better than any other man on the place (he has done it for



P. J. Lynch

forty years) there is the smoothest system, harmony, and contentment. The Quaker spirit of peace and order broods over all and that spirit is embodied in the grizzled but sturdy veteran, Charles Dingee, the founder of the house, who has an equal claim with Pat, the faithful, to the encomiums of posterity for having done well the work that came to his hand in the world with a single eye to right and truth.

I spent three delightful hours wandering over this establishment and hearing the knowing ones discourse on the merits of this or that favorite rose; why the Admiral Schley, the Franz Deegan, or the Souvenir de Pierre Notting were infinitely superior to all others; why the Baby Rambler was in a class by itself; and a myriad of other whys and wherefores, sufficient to make one's brain whirl when taken altogether in one dose.

My friends, I tell you not much in detail, it is impossible. You must go and see, or at least send for the book of roses. I can only tell you how I feel and perhaps under the circumstances that is best. Suffice it to say that the Dingee & Conard Company are the pioneer rose mail-order house of the world. They made a specialty of sending out small roses and other plants through the mails at a price within the reach of all, they revolutionized the industry by their economical and efficient methods, they planted roses in a million homes from the Atlantic to the Pacific, and made a fortune for themselves in doing it. They are still the biggest and best in their line and if that isn't glory, I'd like to know what is. *Verbum sapienti.*

George C. Watson

CUT-FLOWER MARKET REPORTS

CINCINNATI Trade has slackened in all its branches. Stock is beginning to accumulate, bulbous stock in particular. The past week has for the greater part resembled mid-summer, causing roses and carnations to pop open in great quantities and bulbous stock, especially daffodils and hyacinths to almost spoil on the plants before they were fit to cut. The present outlook for Easter stock is that it will be scarce as, with the present conditions of weather, it will be next to impossible to hold back any kind of bulbous material.

CHICAGO The enormous supply in all lines has kept pace with that of the past two weeks. The demand for high grade Teas is more pronounced than usual, but Bridesmaid with some growers is already losing color. Carnations are still received far above the needs of the trade although a partial recovery from the depressed conditions was occasioned by the demand on St. Patrick's Day, the demand for white being especially liberal. Outdoor bulbous stock from the south has put in appearance. Callas await a cleaning up sale, but good grade Harrisii is a quick sale stock. Violets are in over supply with sales as low as $1.50 per thousand. E. F. Winterson Co. are leading this week with cut rhododendrons. Wild smilax is giving some concern, the southern pickers reporting inability to gather stock on account of heavy rains. Ferns are advancing. Cold storage stock did not carry well this season; it is reported in some instances 50 per cent was damaged by burn.

LOUISVILLE Business conditions have been unusually good during the past week, stock in nearly every line being very heavily demanded. Roses, carnations, and violets are in excellent quality and demand. Lily of the valley rather slow. Miscellaneous stock satisfactory generally.

NEW YORK Three days of rain has not helped an already depressed market. Dealers find increased difficulty in clearing out except at a radical cut in price; in fact there is no fixed value to anything, only what the buyer is magnanimous enough to give in order to fill his limited requirements. The supply of Tea roses is more than sufficient to satisfy the present demand. The quality of roses is generally good. Gen. Jacqueminot has made its appearance, but aside from the few of especially fine stem and flower, has aroused little more than passing notice, owing to the large cut of Beauties, Brunners, and Liberties, all of which are fine. Of all the varieties of roses in the market including Killarney, Golden Gate, Chatenay, and Uncle John, Bridesmaid holds its own in the favor of flower buyers, but all these have shared in the decline in price.

Carnations are not so plentiful as roses, and consequently it has been possible to maintain a better proportionate price for them. Violet shipments are somewhat lighter and with good clear weather should average up etter, but the larger part of them are sold on the street, which means low prices.

Harrisii and longiflorum lilies are not as a rule, good, but good or poor, find few buyers, and are cheap. Bulbous stock has been so abundant and cheap that it is a relief to see less of it coming into the market. Tulips are not bringing much of a price, in fact, are too cheap to give the grower even a small margin of profit. Daffodils and jonquils are doing better; it is not necessary to job them out in lots. Sweet peas and mignonette can be had in quantity and at a reasonable figure.

Later reports up to the middle of the present week indicate that the overstock is not increasing. Roses in original lots are sold at figures much below quoted prices.

There are a few of the larger growers who are accustomed to distribute a part of their product among out-of-town dealers, but when trade falls off just that much more stock is thrown on the New York market and considering this and the added burden of disposing at home of nearly all the flowers shipped to the city, it is surprising that it is all absorbed at some kind of a price.

PHILADELPHIA The slump has come at last, good and proper. Fine sunny weather and slack demand has simply swamped the market for the time being. Good long-stem Beauties are bringing $12.50, where same grade were bringing $40 and $50 a week ago. This applies particularly to roses which are more easily affected by the weather. Proportionately the carnation market did not suffer so much, although it was bad enough. Violets and lily of the valley were in good demand and although at rather low figures moved readily and were a bright spot in an otherwise gloomy situation. Lilacs are nearing the wind-up. Gardenias moving fairly well at low prices. Easter lilies scarce and selling all right. Smilax of anything like good quality very scarce. Houses are generally cut out. Wild smilax is in good supply, but quality is not up to the mark.

PITTSBURG During the past week the market remained much the same as previously reported. No one in particular — either wholesale or retail — are boastful of good business. The weather on Saturday opened early with bright sunshine and by ten o'clock the Pittsburg market was crowded with stalls in the open air, with abundance of bloom of all description and potted plants were readily disposed of, good azaleas, nephrolepsis, and spireas selling for good prices; even daffodils were cleaned out by evening. The supply is large and plenty of good stock is obtainable at all the wholesale houses. American Beauties are still bringing in high prices, especially fancy stock. Carnations are cleaning up pretty well this week. Prices may be a little better if sunshine is plentiful. There is nothing better and more cheerful to Pittsburghers than plenty of sunshine. It creates enthusiasm and brings everybody out doors.

Violets are moving lively and are cleaned up every day, and lots more could be used. Lilies are still bringing good prices and those that can keep them back for Easter and a few weeks after will get very high prices, as everything in the bulbous line will be like last year's calendar — amongst the things that were. There was a good supply of shamrocks for March 17th.

ROSE GENERAL MACARTHUR

General MacArthur is a cross between Marquise de Litta and a seedling of unknown parentage. It has shown perfect hardiness at 10 degrees below zero, is extremely free in bloom and vigorous in growth, and the introducers consider it one of the grandest bright red roses for bedding as well as one of the most easily handled roses for winter forcing. They claim that for the average market, it can be grown to



better profit than any other red rose, being especially valuable for the small grower who needs a red rose for his own trade, as the best grade bloom can be produced at night temperature of 53 degrees. Its color is crimson scarlet, brighter than any forcing rose yet in commerce.

General MacArthur was originated by E. G. Hill & Co., and was sold by them to Storrs, Harrison Co. in 1900, and introduced by Messrs. Storrs, Harrison Co. and J. N. May in 1904.

BUSINESS CHANGES

Lubliner & Trinz have opened a second store at 176 State Street, Chicago.

The Rhinebeck Violet Association has been incorporated to do business in Rhinebeck, N. Y.

Summit Park Floral Co., is the name of a new establishment at White Plains, N. Y., with M. Conroy, formerly of Fall River, Mass., as manager.

Lambros Floral Co. of Alliance, O., was organized with a capital stock of $50,000. J. C. Moninger Co., Chicago, has the contract for the entire new range of 70,000 feet of glass.

A. Samuels, 718 Wells St., Chicago, has sold his stock and fixtures to H. Lundgren who will continue at the same stand. He has leased the store and greenhouses for a number of years. This is the old Blaemeuser place.

Gold Medal Winner

At St. Louis

Did You See Exhibited at St. Louis the
NEW CRIMSON RED CANNA

MRS. WM. F. KASTING?

Height, 3 1-2 feet. Most brilliant in color, most prolific of all Red Cannas. Blooms all the time, and is exceptionally fine for conservatory decorations. You will need it in your business. **Awarded on its merits, a Gold Medal at the World's Fair, 1904**

PRICES for bulbs, ready for delivery now: $1.00 each, $9.00 per doz. $50.00 per hundred. Stock limited.

WM. F. KASTING, 383-387 ELLICOTT STREET BUFFALO, N.Y.

In writing to advertisers, kindly mention HORTICULTURE

Outdoor Art and Craft

E. W. Breed of Clinton, Mass., has been reappointed forester of the Massachusetts Highway Commission.

Brown-tail moth nests have been discovered in Worcester, Mass. This is their first appearance so far to the westward.

The town of Revere, Mass., has appropriated the sum of $1,000 for the extermination of the gypsy moth. Everett, Mass., has voted $450 additional to the former appropriation for this purpose.

The Salem (Mass.) *Daily News* has been conducting a "Brown-tail Moth Contest," the prizes to be awarded to those bringing in the greatest number of nests. Up to date nearly half a million nests have been delivered and the end is not in sight yet.

Boards of Health in many of the cities and towns of eastern Massachusetts have taken action, declaring the brown-tail moth to be a nuisance and menace to health and have called upon all owners and occupants of private premises to remove and destroy all gypsy and brown-tail moth nests on trees and shrubs within their respective territories. The law provides a fine of not more than $20 a day for disobedience of such orders within a resonable time after notice has been given.

The Metropolitan Park Commission is criminally negligent of its duty so far as fighting the gypsy and brown-tail moths within the limits of its own jurisdiction is concerned. We are informed that the trees on the Waverley Oaks reservation are infested with these pests. Of very little avail will it be for those who live in that vicinity to spend time and money on their estates clearing them of nests and eggs of the brown-tail and gipsy moths when the State is so regardless not only of its own but of contiguous property as to permit the hatching out and dissemination of the nuisance without any attempt to hinder them. The Park Commission can perform its best public service by properly caring for the property under its charge. — Waltham (Mass.) *Press Tribune*.

CATALOGUES RECEIVED

A manual on the propagation and cultivation of the peony, by C. S. Harrison, York, Neb., is a 64-page pamphlet that all peony lovers should have and read. Every question that is likely to be asked about the peony, its characteristics or its culture, is answered in a simple, familiar style by a man who is very evidently in love with his subject. The price is 30 cents.

The William Scott Co., Corfu, N. Y., Chrysanthemum Price List for Spring, 1905. A pocket pamphlet, listing a selection of useful commercial varieties. The Wm. Scott Co. advertises in HORTICULTURE.

Lager & Hurrell, Orchid Importers and Growers, Summit, N. J. Illustrated and descriptive catalogue and price-list. Contains seventy beautiful half-tone illustrations of choice orchids. The prices quoted are enticingly moderate.

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We take pleasure in handing you this circular and trust you will take time to read it and be benefited by it. We have been in this business for the past fifteen years, so in dealing with us you are sure of getting the benefit of our fifteen years' experience in this line.

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1-10 Barrel Bale for	$3.90	$4.50
2-10 " " "	7.75	8.75
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6-10 " " "	22.50	25.50
10-10 " " "	37.00	40.00

This offer will expire on June 1, 1905.

Trusting you will favor us with an order, we are,

Yours respectfully,

New Jersey Moss & Peat Co.

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I have a surplus of 200,000 Cal. Privet in all sizes, and I want you to help me to dispose of it. This privet is well grown, well graded, strong and stocky. I am sure it will please you. It will pay you to let me quote you before you place your order

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THREE years ago, with the idea of informing our growers in Japan of the kind of Lilies *we did not want* in this Country, we sent in a Wardian Case by quickest possible transit, growing samples of the two useless kinds of Lilies, the large percentage of which have proven such a NUISANCE IN ALMOST ALL SHIPMENTS FROM JAPAN, EVERY Lily grower knows them to his sorrow (the kinds which grow from four to six inches high and never produce a perfect flower). These arrived in full foliage at OUR LILY FARM IN JAPAN and our grower there immediately set to work to exterminate these WORTHLESS TYPES so that we can now supply OUR OWN SELECTED STOCK of

LILIUM MULTIFLORUM and LILIUM GIGANTEUM

All orders received and **accepted by us prior to May 1st, will be carefully selected, packed and marked for said consignee and sent direct from the Custom House Via our New York Office, 17 West Forty-second Street,** and if you give your order to me you may rest assured that you will receive as good stock as it is possible to supply. We also feel safe in recommending our selected stock of Bermuda **LILIUM HARRISII** for early forcing and **DOEII** and **BERMUDA LONGIFLORUM** for Easter.

Kindly consider the following testimonials together with the fact that ***we have yet to receive our first complaint from anyone supplied*** by us ***with Lily Bulbs last year.*** Prices and full particulars on application. Correspondence solicited.

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PLANTS—BULBS—SEEDS **1305 Filbert Street, Philadelphia**

WASHINGTON, D.C., March 9, 1905.
Mr. Wm. P. Craig,
1305 Filbert St.,
Philadelphia, Pa.
Dear Sir; — We are pleased to state up to this time the Lilium Multiflorum and Lilium Giganteum purchased from you last season *are better than any that we have received.* We remain,
Yours truly,
A. GUDE & BRO.

MERION, PA., March 10, 1905.
Mr. W. P. Craig,
Dear Sir; — Your letter of inquiry in regard to condition of lilies obtained from you received.
This year I purchased my bulbs from several sources, — all reliable houses, and all guaranteed to be first class, — I have kept them all separate and to-day the ones obtained from you had all the rest beaten. *I wish you had furnished them all,* another season you shall.
Very truly yours,
HARRY I. FAUST.

RUTHERFORD, N. J., Feb 28, 1905.
Mr. Wm. P. Craig,
1305 Filbert St., Philadelphia, Pa.
Dear Sir; — In reply to your inquiry regarding the shipment of Lilium Giganteum received from you, would say same have turned out *entirely satisfactory* and you may figure on a large part of our order next year.
Yours very truly
JULIUS ROEHRS CO.

PITTSBURGH, PA., March 16, 1905.
Mr. William P. Craig,
Philadelphia.
My Dear Sir; — I am very well pleased with the Japanese Lily bulbs I got from you this season; am now getting them ready for Easter, and they look splendidly.
Very truly yours,
WILLIAM FALCONER,
Supt. ALLEGHENY CEMETERY.

PHILADELPHIA, PA., March 10, 1905.
Mr. Wm. P. Craig,
1305 Filbert St.,
Philadelphia.
Dear Sir; — Replying to your inquiry as to result of Lilium Giganteum, they were entirely satisfactory. You may book my order for 3,500, $\frac{9}{10}$ as per your quotation, to be delivered October 15.
Respectfully,
WILLIAM C. SMITH.

WEST PHILADELPHIA, March 13, 1905.
Mr. Wm. P. Craig,
Dear Sir; — While visiting Mr. August Muller's greenhouses the other day I noticed his fine lot of lilies. The bulbs I understand were furnished by you. Kindly call on me for next season's bulb order and oblige,
Yours very truly,
WM. DIDDEN.

PHILADELPHIA, March 17, 1905
Mr. Wm. P. Craig,
Dear Sir; — The Lilium Multiflorum and Lilium Giganteum have developed the best we have had for many years. Kindly call and see me in regard to next season's orders. Can use about 3,500 of them.
Very truly yours,
J. WOLFF, JR.

YOUNGSTOWN, O., March 11, 1905.
Mr. Wm. P. Craig,
Dear Sir; — We are pleased to report that the Lilium Multiflorum, received from you last Fall, have turned out exceptionally fine and true to name. At present writing they are as fine as any we have ever grown, and will be just right for Easter.
Yours respectfully,
WALKER & MCLEAN.

PHILADELPHIA, March 2, 1905.
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Philadelphia.
Dear Sir; — The lily bulbs I received from you last Fall have turned out the best I have ever grown and I want to place my entire order with you for next season's supply. Hoping all your orders were filled as well as mine, which should be a big card for you, I am,
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Also best in *Carnations, Cannas, Geraniums*, etc.
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Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

Bays, Palms, Orchids
Send for catalogue of
Florists' Decorative Plants
JULIUS ROEHRS CO.,
RUTHERFORD, N. J.

ORCHIDS
Arrived in fine condition, Cattleya Mendelii, Dendrobium Wardianum, Laelia anceps and Oncidium tigrinum unguiculatum.
We also offer a lot of well-grown bulbs of Calanthe Veitchii.
LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
SUMMIT, N. J.

Cypripediums
ACAULE-PARVIFLORUM-SPECTABILE
LAUREL and AZALEA SHRUBS
SPRUCES - MOUNTAIN ASH - PINES
HARDY FERN ROOTS
SPECIAL PRICES
ARTHUR D. DOWNS, Box 15 LENOX, MASS.
In writing to advertisers, mention HORTICULTURE

PEACOCK'S DAHLIAS
Send for beautifully illustrated descriptive catalogue and trade list for 1905, now ready
L. K. PEACOCK, INC. = = Atco, New Jersey

In writing to advertisers, kindly mention HORTICULTURE

WE CAN SHIP

White Lawson

AT ONCE

We sent this variety out last season; it has given general satisfaction. Our stock is pure white. ROOTED CUTTINGS, $7.00 per 100, $60.00 per 1000. Special prices on larger quantities. Send for our catalogue.

Chicago Carnation Co.

James Hartshorne, Mgr., Joliet, Ill.

$12.00 per 100
$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

	Per 100	Per 1000		Per 100	Per 1000
WHITE LAWSON	$6.00	$60.00	HARRY FENN	$2.00	$20.00
NELSON FISHER	6.00	60.00	GOETHE, light pink	2.00	20.00
MRS. PATTEN	6.00	60.00	GENEVIEVE LORD	1.50	15.00
ENCHANTRESS	3.50	30.00	MANLEY	3.00	25.00
PROSPERITY	2.50	20.00	MACEO	1.50	15.00
THE BELLE	6.00	60.00	CERVERA	1.50	15.00
LADY BOUNTIFUL	6.00	60.00	LAWSON	2.00	15.00

5 per cent. discount for cash with order. Send your orders early.

Alexander J. Guttman

52 W. 29th Street, New York City

Address all correspondence to 52 W. 29th Street, New York City

---

MY MARYLAND

Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class Certificate of Merit by the American Carnation Society, Lawson Bronze Medal for 100 blooms and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1906. Price $2.50 per doz.; $12 per 100; $100 per 1000. Write us for other new and standard varieties.

H. WEBER & SONS, Oakland, Md

In writing advertisers mention HORTICULTURE.

Rooted Cuttings **CARNATIONS** Clean and Healthy

Mrs. M. A. Patten	$6	per 100
Nelson Fisher	7	" "
Enchantress	3	" "
Walcott, Boston Market	2	" "
J. H. Manley, Maceo	2	" "

Sidney Littlefield, *North Abington, Mass.*

In writing to advertisers, mention HORTICULTURE

CARNATIONS, ROOTED CUTTINGS

Crusader	Per 100	$4 00
Enchantress	"	3.00
Boston Market, Mrs. Nelson	"	1.50
Lawson, Lord, Hill, Scott	"	1.00
Chrysanthemums, rooted cuttings, Estelle, Opal, Omega, Byron	"	1.25

Des Plaines Floral Co., Des Plaines, Ill.

In writing to advertisers, mention HORTICULTURE

ACERATUM PAULINE One of best Pot Plants. Rooted Cuttings potted now will make 4-in. pot plants in May. R. C. 50c. 100 this week.

J. A. KEENEY, Monongahela, Pa.

Carnation Cuttings

STRONG AND WELL ROOTED

	Per 100	Per 1000
Queen	*$2.50*	*$20.00*
Queen Louise	*2.00*	*15.00*
Enchantress	*3.00*	*25.00*
Harlowarden	*2.50*	*20.00.*
Prosperity, Lawson, Fair Maid	*2.00*	*15.00*

S. J. REUTER

WESTERLY, R. I.

In writing to advertisers, mention HORTICULTURE

CRAFTED ROSES BRIDES & MAIDS

EXTRA-FINE STOCK, from Selected Wood. Some now ready.

$10 per 100, $90 per 1000. 2½-in. Pots

Robt. T. McGorum, Natick, Mass.

In writing to advertisers, mention HORTICULTURE

Blue Blooded Stock

READY NOW

Strong Rooted Cuttings

OF THE FOLLOWING:

	Per 100
Flamingo	$6.00
Nelson Fisher	5.50
Mrs. M. A. Patten	5 00
The Bride	5.00
Vesper	4.00
Adonis	4.00
Enchantress	3.00
Prosperity	2.00
Lawson	2.00
Mrs. E. A. Nelson	2.00
Estelle	2 00
Pres. Roosevelt	2.00
Flora Hill	1.50
Queen Louise	1.50
The Queen	1.50
Mrs. Bradt	1.50

Other Stock

	Per 100
FICUS ELASTICA, 4 in. Pots	$22.50
ASP. PLUM. NAN., 3-in. Pots	6.00
BOSTON FERNS, 12-in Pans, $1.50 each	

William C. Smith

61st and Market Sts.
PHILADELPHIA, PA.

Cash with order or satisfactory references.

In writing to advertisers, mention HORTICULTURE

Have you Ordered **Fred Burki**

THE COMMERCIAL WHITE?

If not do so. All orders booked now are for March delivery.

'Need a good Red? Get the **Cardinal**

It cannot be beat.

$12 per 100. $100 per 1000.

S. S. SKIDELSKY

824 North 24th St. Philadelphia

In writing to advertisers, mention HORTICULTURE

Fiancee

Gold Medal Carnation

Chicago Carnation Co. JOLIET ILL.

Please mention HORTICULTURE when writing.

CARNATIONS ROOTED CUTTINGS HEALTHY, YOUNG STOCK

	Per 100	Per 1000
Enchantress	$3.50	$30.00
Queen	2.50	20.00
Lawson, Queen Louise, Walcott,	2.00	15.00
Floriana	1.50	12.50
Lord	1.25	10.00
Fiancee	12.00	100.00

ROBERT C. PYE, - NYACK, N.Y.

In writing advertisers, mention HORTICULTURE

STERILIZED SHEEP MANURE

100 lbs. $1.25 1-4 Ton $6.00 Ton $20.00

W. Elliott & Sons

New York

In writing to advertisers, mention HORTICULTURE

MONEY BY "TELEGRAPH"

ORDER NOW

THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. Will Sell at Sight off your bench for $3.00 per doz. and give tone to your establishment. Extra strong 2½ in. plants, $15.00 per 100. On sale by the leading houses and

Thos. DeVoy & Son, Poughkeepsie, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

THE FINEST GRADE OF

AMERICAN BEAUTIES

Maids, Brides and Carnations

Are to be had from

WALTER F. SHERIDAN

Wholesale Florist

39 West 28th St. NEW YORK

In writing to advertisers, kindly mention HORTICULTURE

FLOWER BASKETS AND VASES

IN SPECIAL SHAPES AND COLORS FOR

American Beauty Roses

Daffodils, Violets, Carnations, and Spring Flowers

These are seasonable goods at reasonable prices and will be popular until Easter

SEND FOR A SAMPLE SHIPMENT

Can provide everything else that a Florist can possibly require in the way of Supplies. Send for Catalogue.

LARGEST STOCK, BEST QUALITY, AND LOWEST PRICES

H. BAYERSDORFER & CO., 50-56 No. Fourth St., Phila., Pa.

In writing to advertisers, kindly mention HORTICULTURE

EASTER { is coming and you will need / CUT FLOWER and PLANT } **BOXES**

VAUGHAN & SPERRY

60 WABASH AVE., CHICAGO

Sell the CHEAPEST and BEST box on the market. Send for their catalogue.

In writing to advertisers, kindly mention HORTICULTURE

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Letters, Strips and Emblems

Koral Manufacturing Co.

Office and Factory

26 HAWLEY STREET, BOSTON, MASS.

Telephone, Main 3978-1 J. B. Olden, Mgr.

Green Silkaline.

Do not be put off with cheap substitutes.

John C. Meyer & Co.,

30 Kingston St., Boston, Mass.

Kindly mention HORTICULTURE when writing.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers, mention HORTICULTURE

Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST. - - - BOSTON

Telephone, Main 58

In writing to advertisers, mention HORTICULTURE

LIST OF PATENTS

Issued March 14, 1905.

784,618. Onion-Cleaner. French Griffis, McDonald township, Hardin Co., O., assignor of one-half to Chandler Robbins, Springfield, O.

784,682. Attachment for Hand Agricultural Implements. Alva D. Jones, Louisville, Ky.

784,684. Device for Protecting Trees. Adolf Karlsen, Roken, near Christiania, Norway.

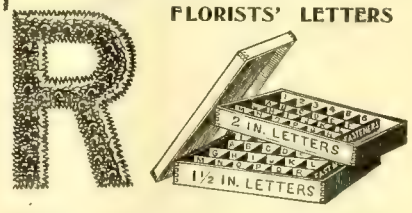
784,724. Hand-Rake. William C. Winfield, Warren, O., assignor to The Warren Sheet Metal Co., Warren, O.

784,756. Florist's Bench. Caspar J. Pult, North Tonawanda, N. Y.

BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager

84 Hawley St., BOSTON, MASS.

In writing advertisers, mention HORTICULTURE

TIME IS MONEY

Save Time and Car Fare by ORDERING from Any of These Advertisers. Mention HORTICULTURE.

REED & KELLER

122 W. 25th St., New York, N. Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

In writing to advertisers, mention HORTICULTURE

R. C. HAYDEN, Secr. and Treas. WILLIAM J. MUTH, Mgr.

The PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSOM ST., PHILADELPHIA

Choice Beauties, Brides and Maids. Fancy Carnations.

Beauties

WE CANNOT REPEAT IT TOO OFTEN. ONE OF OUR GREAT SPECIALTIES. WE CAN QUOTE YOU VERY TEMPTING PRICES AT PRESENT AND FURNISH ALL GRADES FROM GOOD TO EXTRA SPECIAL.

CHIFFONS

WE ARE STRONG ON THESE. GET YOUR SUPPLY NOW FOR EASTER. SPECIAL PRICES

Samuel S. Pennock

The WHOLESALE FLORIST *of* PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers

BOSTON'S BEST

....All Varieties....

SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

84 HAWLEY ST.

Tel. Main 5973 BOSTON

In writing to advertisers, mention HORTICULTURE

Hardy Cut **Dagger and Fancy FERNS**

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of FLORISTS' SUPPLIES In the country

H.M.Robinson & Co.

8 & 11 PROVINCE ST.

Boston, Mass.

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER

WHOLESALE FLORIST 1432 So. Penn. Sq., PHILA.

FANCY CARNATIONS

Sweet Peas and Pansies

In writing to advertisers, mention HORTICULTURE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO } GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO March 21	ST. LOUIS March 21	PHILA. March 21	BOSTON Mar. 22
ROSES				
Am. Beauty, Fan. & Sp.	32.00 to 42.00	40.00 to 50.00	30.00 to 40.00	20.00 to 25.00
" Extra	25.00 to 30.00	25.00 to 40.00	20.00 to 35.00	8.00 to 12.00
" No. 1	18.00 to 20.00	15.00 to 20.00	15.00 to 20.00	4.00 to 8.00
" Lower grades	4.00 to 10.00	5.00 to 12.50	10.00 to 12.50	2.00 to 3.00
Bride & Maid Fan. & Sp.	6.00 to 8.00	.. to 8.00	10.00 to 12.00	6.00 to 8.00
" " Extra	5.00 to 6.00	6.00 to	8.00 to 10.00	4.00 to 6.00
" " No. 1	3.00 to 5.00	..... to	6.00 to 8.00	2.00 to 3.00
" " Lower gr.	2.00 to 3.00	3.00 to 5.00	2.00 to 4.00	..... to .....
Liberty, Fancy & Special	8.00 to 10.00	..... to 6.00	20.00 to 25.00	8.00 to 12.00
" extra	6.00 to 8.00	5.00 to	15.00 to 20.00	6.00 to 8.00
" No. 1	4.00 to 5.00	..... to	8.00 to 10.00	4.00 to 6.00
" Lower grades	2.00 to 3.00	3.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Golden Gate } Best	6.00 to 8.00	6.00 to 8.00	10.00 to 12.00	..... to 6.00
Ivory } Medium	4.00 to 5.00	..... to	6.00 to 8.00	..... to 4.00
Chatenay } Culls	2.00 to 3.00	4.00 to 5.00	3.00 to 5.00	..... to 2.00
CARNATIONS				
Fancy Class	2.50 to 3.00	..... to 3.00	3.00 to 4.00	2.00 to 3.00
General Class	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.00 to 2.00
Lower Grades	.75 to 1.00	1.00 to 2.00	1.00 to 2.00	.75 to 1.00
VIOLETS				
Special	.50 to .75	..... to	.50 to .60	.40 to .60
General	.30 to .50	..... to	.40 to .50	.25 to .35
Single	.30 to .50	..... to .25	.25 to .35	.20 to .25
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	..... to 50.00	50.00 to 60.00
Cypripediums	12.50 to 15.00	..... to	..... to 15.00	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	8.00 to 12.50	..... to 12.50	6.00 to 8.00
Lily of the Valley	2.00 to 3.00	..... to 3.00	3.00 to 4.00	2.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.50 to 3.00	1.00 to 3.00	1.00 to 2.00
Paper White Narcissus	..... to	..... to 3.00	..... to	1.00 to 2.00
Daffodils	1.50 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips	1.50 to 4.00	2.00 to 3.00	2.00 to 5.00	2.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8.00
Freesia	..... to	..... to 2.00	1.00 to 3.00	1.00 to 1.50
MISCELLANEOUS				
Mignonette	3.00 to 10.00	3.00 to 5.00	2.00 to 4.00	1.00 to 2.00
Sweet Peas	.50 to 1.00	.25 to .50	.50 to .75	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	..... to 1.00	..... to .75	.75 to 1.00
" Crowea.num	..... to	..... to	1.25 to 1.50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 16.00	12.50 to 15.00	12.50 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	50.00 to 60.00	..... to 50.00
" " bunches	..... to	..... to	50.00 to 75.00	35.00 to 50.00
" Sprengeri "	..... to	..... to	..... to	35.00 to 50.00
Gardenias	16.00 to 25.00	..... to	..... to 12.50	..... to .....
Lilac per bunch	.75 to 1.00	..... to	.75 to 1.00	.75 to 1.00

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

HIGH GRADE
Southern Wild Smilax
(From a case to a carload)
At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

Plants for Easter
Write for List and Prices
THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., PHILADELPHIA
In writing to advertisers, kindly mention HORTICULTURE

HEADQUARTERS
—FOR—
KILLARNEY
SIEBRECHT & SON
Rose Hill Nurseries New Rochelle, N.Y.
In writing to advertisers, kindly mention HORTICULTURE

J. A. BUDLONG
37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty.....
WHOLESALE GROWER of CUT FLOWERS
In writing to advertisers, kindly mention HORTICULTURE.

WEILAND & RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK

KILLARNEY
Cut Blooms of this beautiful pink rose regularly in stock
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON
In writing to advertisers, mention HORTICULTURE

FRED EHRET WHOLESALE FLORIST
Center for BRIDES, MAIDS, BEAUTIES CARNATIONS, Etc.
1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

ST. PATRICK'S DAY IN CHICAGO

March 17th was a strong factor in giving strength to the market. This was due, in part, to the wisely-directed efforts of the retail dealers. There were "Shamrock imported from Ireland," "The only real shamrock in the city," etc. It takes such men as Mangel, Rowe, Lang to bring out the full meaning of *true*, *truest*, and *only true*. These "past-masters of the art" back up their talk by their fine show windows. At Mangel's a fine window of eastern shamrock was the cynosure for passers by. Shamrocks in shamrock-shaped pots was a leader with A. Lang. Harry Rowe who has the decorations for the Irish Fellowship Club's big banquet at the Auditorium (over 500 large pots of shamrock are used for this occasion) had a pretty bank of shamrocks filling his large show window. Bohanm & Conger had a novel display, an immensely large "Fish hook" cactus, about 18 inches in diameter. This beautiful plant was studded with dendrobiums around the sides and top, which showed off as a monster cactus in full bloom. The most artistic window appropriate for the day was at Fleishmann's — an Irish harp, 6 feet high, made of lencothoe leaves, on a base arranged with the same material in sprays, and draped with green ribbon. Sunrise roses and mignonette in vases, and Asparagus plumosus in heavy strings were lavishly used, the whole culminating another pretty conceit in color effect by G. Wienhoeber, who is the manager and artist for Fleishmann.

Edwin B. Lewis has been appointed receiver for Wm. L. Rementer, Lansdowne, Pa. Rementer has "left for parts unknown."

The final report of the World's Fair Flower Association which was organized at Chicago for the purpose of making a chrysanthemum show at the St. Louis Exposition last fall has been made. It shows expenses of $8,432.21 and receipts of $9,889.55, giving a dividend of 20 per cent to the guarantors.

Thos. F. Galvin
Boston's Leading Florist
124 Tremont Street
Opposite Park St. Church
CONSERVATORIES
Boylston and Fairfield Streets
BACK BAY
In writing to advertisers, mention HORTICULTURE

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
111 West 30th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
In writing to advertisers, kindly mention HORTICULTURE

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
VIOLETS
Carnations
Lily of the Valley
Hyacinths, Lilies
Paper Whites, and
all other flowers
in season
Telephones { 2200 / 2001 } Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside, N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending March 18, 1905.	First Half of Week beginnig Mar. 20 1905.
ROSES		
Am. Beauty, fan. and sp	12 00 to 20 00	10.00 to 30.00
" extra	6 00 to 10 00	6.00 to 10.00
" No. 1	4 00 to 5 00	3.00 to 6.00
" Lower grades	1 00 to 2.00	1.00 to 2.00
Bride and Maid, fan. and sp	4 00 to 8.00	4.00 to 6.00
" " extra	3 00 to 4.00	3.00 to 4.00
" " No. 1	1 50 to 3 00	1.50 to 3.00
" " Lower gr	.75 to 1.00	.75 to 1.00
Liberty, fan. and sp.	10 00 to 20.00	8.00 to 20.00
" extra	4.00 to 8.00	4.00 to 8.00
" No. 1	2.00 to 3.00	2.00 to 4.00
" Lower gr	1.00 to 1.50	.50 to 2.00
Golden Gate, Ivory, Chatenay — Best	5 00 to 8 00	5.00 to 10.00
Golden Gate, Ivory, Chatenay — Medium	3 00 to 4 00	3.00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	1.00 to 1.50	1.00 to 1.50
CARNATIONS		
Fancy Class	2.00 to 4.00	2.00 to 4.00
General Class	1.00 to 2.00	1.00 to 2.00
Lower Grades	.50 to 1 00	.50 to 1.00
VIOLETS		
Special	.25 to .50	.25 to .50
General	.15 to .20	.10 to .20
Single	.20 to .40	.20 to .40
ORCHIDS		
Cattleyas	.... to	.... to ....
Cypripediums	.... to	.... to ....
BULBOUS		
Lilies	3 00 to 6.00	3.00 to 6.00
Lily of the Valley	1 00 to 3 00	1.00 to 3.00
Roman Hyacinths	1 00 to 2 00	1.00 to 2.00
Paper White Narcissus	1 00 to 2 00	1.00 to 2.00
Daffodils	2 00 to 3.00	1 50 to 3 00
Tulips	1.00 to 3 00	.75 to 3.00
Callas	.... to	.... to ....
Freesia	.50 to 1.00	.25 to 1 00
MISCELLANEOUS		
Mignonette	1.00 to 4 00	1.00 to 4.00
Sweet Peas	25 to 1 00	.75 to 1.00
Adiantum Cuneatum	.75 to 1 00	.50 to 1.00
" Croweanum	100. to 1 50	1.00 to 1.50
" Farleyense	.... to	.... to ....
Smilax	12 00 to 20 00	12.00 to 20.00
Asparagus Plumosus, strings	20 00 to 50 00	30.00 to 50.00
" " bunches	20 00 to 40 00	25.00 to 35 00
" Sprengeri "	20 00 to 35 00	25.00 to 35.00
Gardenias	12 00 to 25 00	12 00 to 25 00
Lilac, per bunch	.50 to 1.00	.50 to 1.00

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

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Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

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Wholesale Florist
At The Flower Market
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55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

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113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
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Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
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YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
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Always Reliable for FLOWERS CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

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THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
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Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

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JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI MARCH 21	BALTIMORE	BUFFALO MARCH 21	PITTSBURG MARCH 21
ROSES				
Am. Beauty, fan. and sp.	..... to 40.00	..... to	25.00 to 35.00	50.00 to 60.00
" extra	.... to 30.00	..... to	10.00 to 15.00	30.00 to 40.00
" No. 1	10.00 to 25.00	..... to	6.00 to 8.00	15.00 to 20.00
" Lower grades	5.00 to 8.00	..... to	2.00 to 4.00	6.00 to 10.00
Bride and 'Maid, fan and sp.	6.00 to 8.00	..... to	.... to	15.00 to 18.00
" " extra	4.00 to 5.00	..... to	8.00 to 10.00	10.00 to 12.00
" " No. 1	.... to 3.00	..... to	5.00 to 6.00	6.00 to 8.00
" " Lower gr.	to 2.00	..... to	2.00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	6.00 to 8.00	..... to	..... to	18.00 to 20.00
" extra	.... to 5.00	..... to	8.00 to 10.00	15.00 to 18.00
" No. 1	..... to 4.00	..... to	4.00 to 6.00	6.00 to 10.00
" Lower gr.	.... to 3.00	..... to	2.00 to 4.00	4.00 to 5.00
Golden Gate } Best	6.00 to 8.00	..... to	6.00 to 8.00	10.00 to 12.00
Ivory Medium	4.00 to 6.00	..... to	4.00 to 6.00	6.00 to 8.00
Chatenay } Culls	..... to 3.00	..... to	2.00 to 4.00	3.00 to 8.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to	2.50 to 3.00	5.00 to 6.00
General Class	..... to 2.00	..... to	1.50 to 2.00	3.00 to 4.00
Lower Grades	..... to 1.00	..... to	1.00 to 1.25	1.00 to 2.00
VIOLETS				
Special	..... to .75	..... to	..... to	.75 to 1.00
General	..... to .50	..... to	.20 to .35	.60 to .75
Single	.25 to .35	..... to	..... to	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 15.00	..... to	10.00 to 15.00	12.00 to 18.00
Lily of the Valley	3.00 to 4.00	..... to	2.00 to 4.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	..... to	..... to	2.00 to 3.00
Paper White Narcissus	1.50 to 2.50	..... to	2.00 to 3.00	2.00 to 3.00
Daffodils	1.50 to 3.00	..... to	2.00 to 3.00	4.00 to 6.00
Tulips	2.00 to 3.00	..... to	2.00 to 3.00	2.00 to 4.00
Freesia	..... to 1.00	..... to	2.00 to 3.00	3.00 to .....
Callas	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	..... to	2.00 to 5.00	1.00 to 3.00
Sweet Peas	.75 to 1.00	..... to	.40 to .75	.50 to .75
Adiantum Cuneatum	..... to 1.00	..... to	.75 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	..... to	10.00 to 12.00
Smilax	12.50 to 15.00	..... to	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to	40.00 to 60.00	30.00 to 50.00
" " bunches	..... to 35.00	..... to	20.00 to 35.00	20.00 to 35.00
" Sprengeri "	25.00 to 35.00	..... to	20.00 to 35.00	30.00 to 50.00
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	..... to	1.00 to 1.25

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W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

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Strips 4 to 6 feet long, 6 to 12 inches wide, in bundles of about 40 pounds, excellent for covering window boxes and other rustic operations, $.50 per bundle; $5.00 per dozen. G. C. Watson, Juniper and Locust Sts., Philadelphia.

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Specialties, strong divided root s, $1.25 dozen; $7.00 per 100. G. C. Watson, Juniper and Locust Sts., Philadelphia.

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MUSHROOM CULTURE.
My 24 page booklet on Mushroom Culture, $ 10 Free with orders. Sample lot mushroom spawn, 1 pounds for $1.00, by express. Sample brick by mail. $.25 G. C. Watson, Juniper and Locust Sts., Phila.

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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in pots, $9 per doz.; 50 plants at $ 60 each; 100 plants at $.50 each; 500 plants at $ 45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on Hudson, N. Y.
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Importers, Exporters, Growers, Hybridists.
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PANSIES.
100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100 $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

PATENTS.
E. G. Siggers, Washington, D. C.
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PEONIES.
Old double red, $9 00 per 100; $1.35 per doz. Old double white, $14.00 per 100; $1.90 per doz. Old double pink, $10.00 per 100; $1.50 per doz. New Japanese, set of 27 varieties, one of each, $13 44 G. W. Watson, Juniper and Locust Sts., Philadelphia

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Painted, best quality, packages of 1,000, 3½ inch, $.60, 4 inch, $.65; 5 inch, $.90, 6 inch, $1.25, 8 inch $2.50. Tree labels, copper-wired, 3½ inch, painted, $1.25 per 1,000. G. C. Watson, Juniper and Locus, Sts., Philadelphia.

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August Rolker & Sons, 31 Barclay St., New York.
Baby Rambler Roses.
For page see List of Advertisers.

Rose Killarney. Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
For page see List of Advertisers

C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

ROSES GRAFTED.
Robert T. McGorum, Natick, Mass.
For page see List of Advertisers.

SCOTT FERN.
John Scott, Keap St. Greenhouses,
Brooklyn, N. Y.
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SEEDS.
W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
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Thos. J. Grey & Co., 32 S. Market St., Boston.
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Arthur T. Boddington, 342 W. 14th St., New York
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Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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Conrad Appel, Darmstadt, Germany Estab. 1789. High Grade Grass, Clover, and Tree Seeds

Schlegel & Fottler Co.,
26 S. Market St., Boston.
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SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.
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SOUTHERN SMILAX.
E. A. Beaven,
Evergreen, Ala.
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STEAM TRAP.
E Hippard, Youngstown, O
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STERILIZED SHEEP MANURE.
W. Elliott & Sons, New York.
For page see List of Advertisers.

SULPHO-TOBACCO SOAP.
The best wash insecticide, a combination of sulphur, and essence of tobacco, 10 pound cakes, $2.50, sample pick-age (with instructions), $.10 G. C. Watson Juniper and Locust Sts., Philadelphia.

SUMMER FLOWERING BULBS.
John Lewis Childs,
Floral Park, N. Y.

TOBACCO DUST.
Genuine Leaf Dust far superior to ground stems, 10 lbs. $.40; 50 lbs., $1.50; 100 lbs, $2.50. G. C. Watson, Juniper and Locust Sts., Philadelphia.

TREE SEEDS.
Forest Nursery & Seed Co., Irving College, Tenn.
For page see List of Advertisers.

VENTILATING APPARATUS.
Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

Pierson-Sefton Co., West Side Av., Jersey City, N. J.
See outside cover page.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
See outside cover page

The Chicago Litter
L. C. Meininger Co., 142 to 442 Hawthorne Ave Chicago.

WHOLESALE FLORISTS.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.
Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.
Chas. Millang, 50 West 29th St., New York.
J. K. Allen, 106 W. 28th St., New York.
John J. Perkins, 115 West 30th St., New York.
James Hart, 117 West 30th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Young & Nugent, 42 West 28th St., New York.
Ford Bros., 111 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.
Moltz, 55-57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
John Young, 51 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Smith, 55-57 West 26th St., New York.
Bonnot Bros., 55-57 W. 26th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa
Philadelphia Cut Flower Co., 1516-1518 Sansom St., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.
Fred Ehret, 1404 Fairmount Ave., Philadelphia, Pa
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
Pittsburg Florist Ex., 228 Diamond St., Pittsburg, Pa

New Offers in This Issue

ASPARAGUS PL. NANUS SEED.
Rees & Compere, Long Beach, Cal.
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BOILERS.
Kroeschell Bros., 47 Erie St., Chicago.
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CARNATION ROOTED CUTTINGS.
F. A. Pierson, Cromwell, Conn.
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CHIFFONS FOR EASTER.
S. S. Pennock, Philadelphia.
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DAHLIAS.
W. P. Lothrop, E. Bridgewater, Mass.
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W. C. Steinhoff, W. Hoboken, N. J.
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GRAFTED ROSES.
John Scheepers, 2 Old Slip, New York.
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GRASS SEED.
Henry F. Michell Co., 1018 Market St., Philadelphia
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GREENHOUSE BUILDING MATERIAL.
A. T. Stearns Lumber Co., Neponset, Boston
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A. Dietsch Co., 615-21 Sheffield Ave., Chicago
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HARDY PERENNIALS.
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Woodside Gardens
Abel F. Stevens & Co., Wellesley, Mass.
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LADY CAMPBELL VIOLETS.
Wm. Swayne, Kennett Square, Pa.
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LILIUM HARRISII AND MULTIFLORUM
W. P. Craig, Agt., 1305 Filbert St., Philadelphia.
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LILY BULBS.
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PALMS AND FERNS.
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PEERLESS SULPHUR BLOWER.
Edw. E. McMorran & Co., 15-21 N. Clinton St., Chicago.
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ROSES.
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W. F. Sheridan, 39 W. 28th St., New York.
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S. S. Pennock, Philadelphia.
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W. W. Hunt & Co., Blue Hills Nurseries, Hartford, Ct.
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ROSE. BABY RAMBLER.
The Dingee & Conard Co., West Grove, Pa.
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ROSES DORMANT.
Clucas & Boddington, 312-14 Greenwich St., N. Y
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ROSE LA DETROIT.
J. Breitmeyers' Sons, Detroit, Mich.
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ROSE WELLESLEY.
Waban Rose Conservatories, Natick, Mass.
For page see List of Advertisers.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

ELECTROS

For Sale — Electros of half-tone illustrations used in this and previous numbers of HORTICULTURE.

For prices, etc., address
HORTICULTURE
11 Hamilton Place, Boston

Electros for Sale

WOODCUTS and HALF-TONES of artistic floral designs, funeral, presentation, etc.

Needed by every retail florist as examples from which to take orders for design work.

CHEAP
Address N. Care HORTICULTURE
11 Hamilton Place, Boston

FOR SALE or LEASE

AN EXCEPTIONAL BARGAIN for the right party, greenhouse with 8000 sq. ft. of glass. Hot water heating plant with practically new boilers, 2½ acres of good land, in fine location, well established business in full operation.

Apply to **ANNA W. KIDDER**
Waltham, Mass.

FOR SALE.—Greenhouses, steam heat near electrics and steam, 4 miles to city of 100,000, well stocked with carnations, violets and bedding plants, ¾ acres of land, modern dwelling of 10 rooms. Good wholesale and retail trade. For complete description address H R C., CARE HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As foreman on good-sized place where rose growing for cut flowers is made a specialty. Refer to Alex Montgomery, Waban Conservatories, Natick, Mass. Address GROWER, care of HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As Gardener to have charge of estate. Long experience in all departments in fruit and plant growing all kinds, care of lawns, trees, shrubs etc.—for reference apply to Mr. W. J. Stewart, editor of this paper.
W. S., Care HORTICULTURE,
11 Hamilton Pl., Boston.

SITUATION WANTED—Young man, age 20, has had one year's experience in general greenhouse work. Good worker, strictly temperate, can furnish best references.
Address Clarence E. Bruce, Brattleboro, Vt. Care of Chas. Ford

WANTED SITUATION.—Permanent situation only. Long experience in commercial and private service. Experience and recommendations open to inspection. No temporary position wanted. Address A. T., CARE HORTICULTURE, 11 Hamilton Pl., Boston.

WANTED—A young man to take care of Orchids; must be thoroughly competent, of good habits, and interested in his work. One with an English training preferred. Send references to
Wyndhurst Gardens, Lenox, Mass.

Greenhouses Building or Projected

PLAINFIELD, N. J.—Carnation house 21 × 50.

EAST AVON, N. Y.—M. P. Allen, one house.

SPRINGFIELD, ILL.—Belle Miller, house 30×158, and one 15×158.

MONTREAL, QUEBEC.—Hall & Robertson, one house 22×158, one house, 12×87.

PARK RIDGE, ILL.—E. Buettner, six additional houses each 29×125, besides the new range reported three weeks ago

The King Construction Company have contracts for the following:

LANCASTER, N. Y.—W. J. Palmer & Son, one house 39×156, two houses 19×234.

BRAMPTON, ONT.—William Fendley, four houses, each 21 × 200.

SARANAC LAKE, N. Y.—P. H. Ryan, three houses, each 22×100.

BRANDYWINE SUMMIT, PA.—Alban Harvey & Sons, one house, 12 × 104

TORONTO, ONT.—J. H. Dunlop, three houses, each 25×240.

LOCKPORT, N. Y.—D. T. McCarthy & Sons, two houses, each 26×100.

DAVISVILLE, ONT.—The Toronto Floral Co., one house, 17×150, four houses, each 17×56.

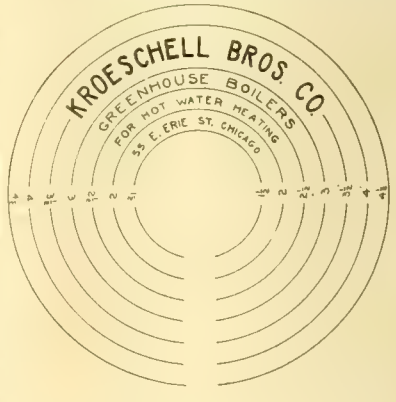
SYRACUSE, N. Y.—P. R. Quinlan, one house, 29×142.

DENVER, COLO.—C. F. Maler, four houses, each 14 × 100.

GRIMSBY, ONT.—A. E. Cole, one house 22 × 62

A CARNATION BLOOM SCALE

This unique souvenir is sent out by Kroeschell Bros., 47 Erie St., Chicago, the popular manufacturers of hot water



boilers for florists' use. It is made of heavy water-proof card. Send for one and kindly mention HORTICULTURE.

NEW YORK V. HOBOKEN.

The bowling aggregation of the Hoboken, N. J., florists came over, as agreed, and tackled the New Yorkers on their own alleys on Monday, March 20. Sadder and wiser they sought the ferry boat a few hours later. Three games had been played, New York winning all with 438 pins to spare. Theodore Lang won a Waterman fountain pen offered by Philip F. Kessler, with highest score, 234.

DON'T LET YOUR ROSES MILDEW



USE THE PEERLESS SULPHUR BLOWER

EVERY GROWER SHOULD HAVE ONE. Will sulphur a house 200 ft. long in 5 minutes. Distributes equally well Lime, Slug Shot, Tobacco Dust, Paris Green or any powder. Circular with testimonials on request.

If your seedsman does not handle it, order direct. PRICE $4.00 F. O. B. CHICAGO.

EDW. E. McMORRAN & CO., 15-21 N. Clinton St., CHICAGO

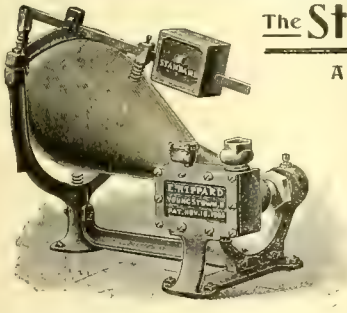
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CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL OF EVERY DESCRIPTION

JOHN C. MONINGER CO. 412 TO 422 HAWTHORNE AV CHICAGO.

In writing to advertisers, kindly mention HORTICULTURE



The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return.

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

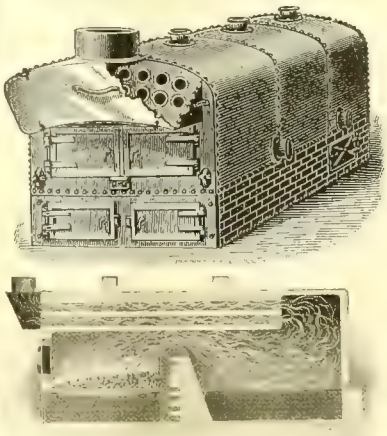
E. Hippard, Youngstown, Ohio

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

47 ERIE ST., CHICAGO



Boilers made of the best material, Shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

In writing to advertisers, mention HORTICULTURE.

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CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

illustrated monthly—Eleventh year—terms, $1. a year.

E. G. SIGGERS, 918 F ST., N. W., WASHINGTON, D. C.

Agents for HORTICULTURE are wanted in every community. Liberal commissions to active workers. Write for information.

SEND FOR

New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

East and West

Chicago, St. Louis, Detroit, Buffalo, Pittsburg, Boston, New York

East and West

Take the Wabash Through Car

Low Rates, Fast Trains

ASK FOR THE WABASH

In writing to advertisers, kindly mention HORTICULTURE

Greenhouse Material

AND

HOTBED SASH

LA. CYPRESS and WASH RED CEDAR

Grades invariably the Best that can be produced

The new addition to our factory enables us to take prompt care of our increasing trade.

A. DIETSCH CO.

615-621 Sheffield Ave. Chicago, Ill.

In writing to advertisers, kindly mention HORTICULTURE

FOUND

A place where new and old material for the complete erection or repairing of...

GREENHOUSES

can be procured in

Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hotbed Sash, Etc.

OLD GREENHOUSES BOUGHT

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Ave. BROOKLYN, N. Y.

References:
Dun, Bradstreet and Broadway Bank of Brooklyn

In writing to advertisers, mention HORTICULTURE

SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied.



Send $1.25 for the tool and you will get it by first express.

SATISFACTION GUARANTEED OR MONEY REFUNDED

Reference for my responsibility: Dun's or Bradstreet's or Union Bank, Jackson, Mich.

E. H. HITCHCOCK, Glenwood, Mich.

Agents wanted everywhere.

In writing to advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps*.

The ANGLE LAMP is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light*. That tells all there is to be told about *good Light*.

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D. C.,

In writing to advertisers, mention HORTICULTURE

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St. Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds

Below we list some of the more important items:

BOILER TUBES. — Two carloads of 3½- and 4-inch good Boiler Tubes that have been used. We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value. The ends have been cut square, they have been rattled and they are free from scales and imperfections. They are in long lengths. They are just what you require for extending your Heating System.

We furnish with these tubes at small cost wrought iron sleeve couplings threaded one size larger than the boiler tubes themselves. For large quantity orders we will make special low prices. At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES. — We offer for sale the three complete Greenhouses used on the Exposition Grounds. Each Building, 22 × 300 ft., with all latest improvements, double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings. Sketch and full information on application. We will sell these Greenhouses singly.

HOT-BED SASH. — 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. — 20,000 Paper Flower Pots that have never been used. Low prices for quick delivery.

25,000 PLANTS. — All the Plants now stored in the Hot House are in first class condition. They are being properly taken care of and consist of the following: — 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternanthera, 2,000 Echeveria, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others.

LUMBER. — 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery. We are making extremely low prices in carload lots. If you are interested, send us your carpenter's bill for our estimate.

PIPE. — 10,000,000 feet of Standard Black Wrought Iron Pipe. It has seen service only during the Exposition. Sizes range from ⅜- up to 42-inch. We can furnish you pipe of any kind. Write for complete list.

GREENHOUSE FITTINGS. — Anything needed in the line, as our stock is complete. Write us your requirements. We can furnish you valves, fittings, etc.

Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

CHICAGO HOUSE WRECKING CO.

35th AND IRON STS., CHICAGO — World's Fair Grounds, St. Louis, Mo.

In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will **Kill all the Weeds in your Lawn**

If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7. No. 4—21-in. Mower, $8. Send draft, money order or registered letter.

In writing to advertisers, mention HORTICULTURE

If you offer the right goods in the right way in these columns, you will not lack for customers.

NICO-FUME

TOBACCO-PAPER INSECTICIDE

BY FAR THE BEST



FOR SALE BY SEEDSMEN

24 sheets, 75c.; 144 sheets, $3.50; 288 sheets, $6.50 (Only 2¼c. each)

Packed in Friction-Top Tins

Preventing Loss by Evaporation

Mfd. by KENTUCKY TOBACCO PRODUCT CO.

LOUISVILLE, KY.

In writing to advertisers, mention HORTICULTURE

INSURE YOUR GLASS

in the FLORISTS' HAIL ASSOCIATION OF AMERICA.

DO IT NOW

It is too late when you are hit. For particulars address

JOHN G. ESLER, Saddle River, N. J.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"Pecky Cypress"**

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

Pecky Cypress Bench Lumber

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED.

Write for Circular "D" and Prices

The A. T. Stearns Lumber Co.

NEPONSET - - BOSTON, MASS.

In writing to advertisers, kindly mention HORTICULTURE

GREENHOUSE GLASS

We are taking orders NOW for late Spring Delivery. We DO NOT advise DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

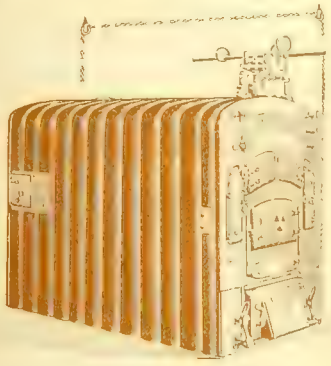
STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

"Entirely Satisfactory"

That's what prominent Florists say of the celebrated

Furman Boilers



Particularly well adapted for

Greenhouse Heating

Write us for Illustrated Catalogue and *Special Florists' Prices.* Address

THE HERENDEEN MFG. CO.

Dept. H. R. GENEVA, N. Y.

Mention HORTICULTURE when you write



Scollay Invincible **Boilers**

—FOR

Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices

In writing to advertisers, kindly mention HORTICULTURE

Holds Glass Firmly

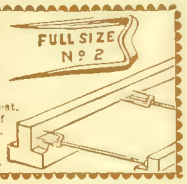
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PEERLESS

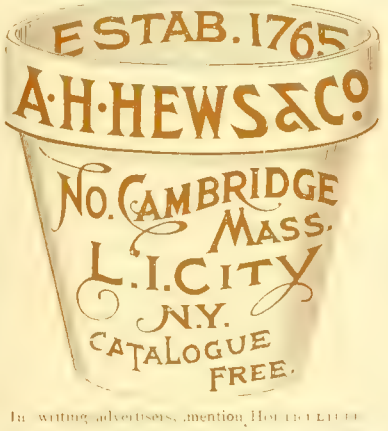
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

FULL SIZE No 2



In writing to advertisers mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

H. H. SYLVESTER

Mason and Builder

818 Tremont Building

Boston, Mass.

Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

GLASS

Buy Now and Save Money

We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

SHARP, PARTRIDGE & CO. 22d and Union Place **CHICAGO**



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NEXT WEEK'S ISSUE will contain "Echoes from England" by H. H. Thomas, "Street and Wayside Planting" by J. A. Pettigrew, "Random Notes Abroad" by Kenneth Finlayson, and much interesting matter relating to Easter Flowering Plants.

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Encourage the Natural Idea in Rural Parks

Often the beauty and harmony of a fine piece of woodland and meadow is spoiled in the process of its construction into a park for public use. Unnecessary roads, bridle-paths, and foot-paths are obtruded into view, as though the chief end and aim of park making were for their exploitation.

Stretches of natural beauty frequently are intruded upon by the erection of greenhouses or other structures for plant growing; or, maybe a zoölogical garden with its buildings, fenced enclosures, cages, etc., is thrust into the foreground of what, otherwise, would be a pleasant, retired, and restful valley. The planting of exotic material, too, is very destructive of naturalness in rural parks.

In the creation of a rural park from a piece of ground possessing good natural advantages in wood and meadow, let the dominating feature of the ground be followed or emphasized. In the laying out of roads and paths, keep in mind the fact that they are simply a means to an end, and are only to be carried when absolutely necessary, and always, if possible, within the edge of the woodland: avoid constructing them across open lawns or meadows. Let the bridle-paths be simple trails through the woods.



"Let the bridal paths be simple trails through the woods."



"A flock of sheep lend a pastoral effect."

Generally speaking, the borders of the park should be heavily belted with trees, and well floored with undergrowth of native shrubs. In this way, seclusion can be given to the interior of the park, where there should be open stretches of meadow, to which a flock of sheep would lend a pastoral effect.

Let all planting be done in entire harmony with the existing growths and conditions. With the wealth of beautiful material we have at hand in our swamps and woodlands there is, certainly, no excuse for planting exotic trees and shrubbery which will not blend with those conditions.

J. A. Pettigrew

Impressions from the Rose Show

The exhibition of the American Rose Society may be characterized as a success in every way. After making due allowance for the enthusiasm of a professional rose grower who had the opportunity of viewing the show amid a delighted assemblage of spectators, I believe it can be truly said that it was the most complete display of the rose in its various types that has ever been held under the auspices of the society. This in itself is very gratifying to its friends, as it has been in this respect that former exhibitions have been lacking, rather than in the quality of the exhibits themselves.

It is believed that by having the meeting of the society in Boston again next year the rose will be shown in still better form, and then it is hoped that, after the standing of the society is firmly established, the western growers will muster up sufficient enthusiasm to attract the meeting to their part of the country. At the present time for some unexplained reason there appears to be a misunderstanding among the cut-flower growers as to what ought to be done to further the best interests of the rose; but there is not the slightest doubt in my mind that before the meeting in March, 1906, these differences of opinion will be completely adjusted.

Of course it is thoroughly understood that western growers are not in a position to make an extensive display of hardy roses, but that I consider their misfortune, for I have no reason to believe that the general public in the West is any less appreciative of things beautiful than is that of the East. While the schedule and prize list in general would have to be rearranged, still with their immense area of glass they could give a display which, although lacking in variety of types of the rose, would nevertheless be interesting to both the grower and the public, and which for quantity and quality could not be excelled.

The great difficulty in the way of harmony between the different sections seems to be that the number of rose growers are very desirous of imitating to the minutest detail an organization which at the present time is the most flourishing that is devoted to any single floricultural interest in this country.

Now it seems to many of us that the chief lesson to be learned from the recent meeting of the Amer-

ican Rose Society, is that the methods which have been the most serviceable in booming the popularity of one flower are not applicable *in toto* to furthering the interest of a flower which, in all its various forms, ought to have a very much more extended field of usefulness than the mere production of cut flowers under glass. Therefore it is suggested that a combination of about equal parts of the following would make a desirable whole. One part of the hustle which is characteristic of the members of the aforementioned association; one part of the methods of operation of the same; one part of the objects and purposes which are represented by the National Rose Society of England.

After attending the meeting of the Society and later mingling with the great crowds of admiring flower lovers, listening to their expressions of approval of the magnificent display of out-door roses, I have come to the following conclusions. It would be suicidal to the success of what is supposed to be a national organization to ignore a class of roses which appeals so strongly to the public; and this, too, simply because some sections of the country have not the interest in out-door roses which they surely will have when there is a greater variety in the types of roses suitable to the different environments.

I do not mean to say that the display of hardy roses and forcing roses ought to be held always at the same time. It might in some cases be advisable to hold one or even several exhibitions of garden roses in different localities during the month of June, and to have these shows sanctioned by the national society and conducted under the direction of its local representatives. But I do mean to state that I believe it would be bad policy to deliberately discourage the holding of rose shows where nothing but a few staple forcing varieties were displayed.

As for the exhibition itself, it may be divided into the cut-flower class, represented by the teas and hybrid teas; the hybrid perpetuals in pots, and the hybrid perpetual blooms singly in vases; and the hardy climbing roses of the rambler type.

In the cut-flower section American Beauty was as usual the first attraction. While the number of entries was less then on some former occasions, the quality was fully up to the standard, as will be understood when it is stated that the winning vase received three separate prizes, representing three hundred and twenty-five dollars in value.

Bride and Bridesmaid were shown in quantity and average of excellence higher than ever before.

It was the opinion of the growers present that in these two varieties the display had never been equaled.

Liberty was in fine form and, next to Beauty, seemed to be the favorite with the public. While the leading prize went to a visitor, the vases were all of a high average, and certainly made an excellent showing for the red division.

Mrs. J. P. Morgan and Mrs. Oliver Ames were both represented by fair samples which showed what can be done with the short-stemmed class.

President Carnot was present in first-class shape for so early in the season, and was a center of attraction for the ladies. No good samples of its running-mate Kaiserin Augusta Victoria were in evidence.

Golden Gate and Ivory were good blooms, but these varieties have never been popular in Boston. This fact is regretted by the growers, because from their standpoint it has most of the good qualities of a money-maker.

A fine vase of Queen of Edgely was staged, but this variety does not yet seem to have attained any great degree of popularity.

Among the older roses, which gave pleasure to many, were Madame Hoste, Bon Silene, and Safrano. Madame Hoste was magnificent and was pronounced by many experts the finest they had ever seen.

The new varieties were fairly well represented, but not in general, in as good form as they undoubtedly will be in another year.

Richmond it is hoped is the long looked for red. It has been staged in much better form in Boston, but even as shown it has demonstrated its ability to take a leading part among the reds. Indeed if it is only half of what is claimed for it, it will certainly displace Liberty in many rose-growing establishments.

Wellesley can be shown better, but still it proved very popular with the public. It will certainly make Madame Chatenay hustle for a place on the market during the coming season.

Killarney appears to have too wide a variation in color to suit the critical buyer, but the bud is certainly the ideal shape, and it will surely be called for on this account if for no other.

La Detroit in some respects ranks with Beauty. Its chief defect in the estimation of the public is its lack of distinctiveness in color.

General MacArthur although it cannot be classed as a fancy red, will probably be used by small growers in place of Liberty.

Uncle John is an improved Golden Gate, and as seen side by side with its parent it ought to displace it.

Madame Abel Chatenay, like some of the noted rose-growers of the country, was a prominent absentee.

From such a display as this, then, I am led to conclude that each succeeding year will bring forth its share of newcomers, and it ought not to be very long before rose growers will have a good selection in all the various colors, so that they may choose varieties best suited to local requirements.

The hybrid perpetuals in both single blooms and pot plants were well represented. The only new variety of importance was the beautiful white rose Frau Karl Druschki. It is a magnificent variety, and is unapproached in its class for absolute purity of color. The display of the rambler type roses was considered by visitors to the show as one of the star features. Among the most striking varieties shown may be mentioned Baby Rambler, red, double. The Farquhar Rose, deep pink, very attractive, fine foliage. Wedding Bells, flushed pink, semi-double. Hiawatha, single, red. Gaiety, pink. Delight, single, red. Sweetheart, good double white, fine glossy foliage. Débutante, blush white. Lady Gay, undoubtedly the finest of its type yet produced. Flowers are pure bright pink, uniform in color, and borne in enormous clusters. There is nothing equal to it in its class, and its raiser deserves the thanks of all true rose lovers. It is on such varieties as this that rosarians pin their hopes for new races that will give the rose its rightful place in the American gardens of the future. It is extremely gratifying to the horticultural interests of Boston to know that they were instrumental in being the first to give the public an opportunity to admire such beautiful examples of the gardeners' art.

Alex. Montgomery, Jr.

South American Horticulture

IV. SAO PAULO

At the nurseries of Mr. Dietsch in Sao Paulo, mentioned in last week's notes, gladioli are planted three times in the one round of twelve months, coming in at all times. With dahlias it is the same. Also a continuous crop of roses is now practically assured, since the rose grower of Mr. Dietsch, who had a good experience in Italy, has found out just what varieties are best suited for the climate. This gentleman was very confident that his new grafted hybrid teas, numbering about 5,000, of various varieties, would give him an even continuous supply of well-developed flowers all the year around.

The only insects which become troublesome for outdoor culture of cut flowers are the grasshoppers, of which there are about half a dozen varieties of different size and colors, the largest as big as your hand. Besides their long springy legs, six inches in length, they have a double pair of wings, on which they sail away from the danger of any inquisitive five fingers. After all, the gardeners get the best of them by going out at six o'clock in the morning, with the temperature just about freezing, between 32 and 40 degrees, armed with a pair of scissors. The hoppers at that time, from cold, are unable to fly, and are cruelly and remorselessly clip, clip, clipped in two halves. Of the much feared ants, Brazil's greatest drawback to agriculture and horticulture in general, the nursery had none to house. Generally they prefer cultivated plants instead of forest plants, and make their appearance not until some years after woodlands have been cut down and taken under cultivation. The land of the nursery had been uncultivated for some years, and had developed a thick growth of bush and young trees which had been cut and burned down, and this probably had destroyed the ants, if there had been any on the land.

Mr. Dietsch grows most all modern garden and greenhouse plants of the latest varieties, as do the other two or three florists of Sao Paulo. The palmhouse consists of three rows of brick pillars, that in the center being twice as high as the outer rows, upon which foundation rests a ridged screen, made out of forty-foot bamboo splits. The bamboo is nailed two inches apart, thus giving shade enough and wind-break as well; it makes an ideal palmhouse, in which it is not necessary to look after your plants at all, as the rainfall reaches the plants through the bamboo screen often enough to keep the tubs and pots moist. Only after exceptionally long spells of dry weather the tubs and pots are looked over and given a watering with hydrant-water. Orchids are housed precisely in the same manner, and only after a week or more of continuous sunny weather are taken down and dipped into a big cistern in the house, in which the water keeps its high temperature from the previous day.

On the first occasion I visited again the public park — Jardin da Luz III — opposite the depot of the Santos-Sao Paulo railway. I have spent nowhere evenings with such an artistic garden atmosphere around me as in this park. I entered about the time the concert was to commence, eight o'clock. The whole grounds, in the vicinity of thirty acres, were well lighted-up by numerous electric arc-lights, throwing into the evening landscape all the gracefulness of immense palms and tropical plants. Along the broad walks are white marble seats, finely polished and on artistic basework; all gutters are of gray granite. You touch the leaves of arecas or dracænas, or araucarias, as you pass through a narrow path over to another main walk, now leading you to the center of interest. Then with the crowd you turn around a last corner — a group of Cycas revoluta and reclinata, twelve feet and more in height, with smaller specimens around them — and behold the pond and the bandstand, where on the promenade hundreds of gay-dressed Brazilians show themselves in public. The pond has crystal-clear water, is shaped in a cross and set in white marble, and is filled with all sorts of nympheas, lotus, etc. Among them wade carefully, odd-looking storks, ibis, and herons. Out of the center arises a fine fountain, illuminated by the lights of several strong electric globes. The air is warm, but not hot, the ladies wear no hats, or only something which looks to the uninformed like a piece of white lace-curtain, just cut off for the emergency in leaving the hot city house. Gentlemen in white duck and white boots lead them from the promenade to seats under the open pavilion and around the tables near the bandstand, and order soda. There is plenty of room for all comers; all walk slowly and carefully, pushing and crowding being looked upon by the chivalrous Brazilians as extreme impoliteness. From the Italian street-boy, who sells "doce" — sweets — to the signorita, who can drive in an elegant carriage to the park concert, an artist could select perfect models of symmetrical bodies. The familiar music which the band plays, makes you feel somewhat at home in the unusual surroundings.

Everything in heaven and earth here seems to be reversed. January is the hottest month; at noon the sun stands in the north, so you have to go to the south side of trees to be in the shade; palms are common trees, but an oak or thorn you seldom find; canna, castor-oil bean, and the "wandering jew" are weeds, but a violet or a lilac are rare. It is difficult to realize that shrubs and trees you view as a foreigner with double interest, are to the Brazilian boy, who accidentally stands beside you, listening to Wagner and Strauss, his native plants and yard-trees, among whose branches he is at home. It is only by conversation with educated Brazilians that a foreigner can catch the spirit of tropical nature, its charm of forms and its tune of color, as I found out in later experiences.

Outside the gates of the public park, carriages of

the wealthy, and the electric car for the common citizen are waiting; with the well-known North American swiftness, the car made in St. Louis takes you home; the open car is closed in a rain-storm by curtains, but otherwise no protection is needed. No snow-plowing, no delays, or breakdowns on account of weather, in Brazilian cars. To ride on them is here wholly a pleasure trip along palm avenues, between gardens, among bananas, coffee-trees, oranges, and lemons.

In early morning, until 9 o'clock in the park is delightful. There is a fine, rock scenery with walks between steep rock walls and palm-foliage of such profusion as to darken the place almost, then suddenly you come to an opening where the sunshine lightens all and transforms a waterfall into streaks of gold and silver, against the red of rocks from which it is falling. Not far off is a bed of Yucca gloriosa in flower, the flower-shafts two yards in height, and very bright indeed amid the dark glossy foliage of tropical trees. The native trees belong to the classes of Lauraceæ, Myrtaceæ, Leguminosæ, and Ficus, and others. The last named arise to immense height, holding on to the ground with curious board-like roots, standing twenty feet above the surface, edgewise against the trunk.

Sao Paulo has several smaller parks and squares, and a larger piece of ground in front of the state house is even now prepared for a public park. In the suburbs are also several public pleasure gardens, belonging to breweries and coffee restaurants. In one of these I found two oaks and a few specimens of other northern deciduous trees, all about ten feet high, showing that only recently someone interested in horticulture had made an attempt to show to the native Brazilians a few samples of northern plants.

In southern Brazil I have noticed apple and pear trees, healthy and fruit-bearing, showing that our forest trees might be made to acclimatize themselves to warmer climates. This, however, applies only to Sao Paulo and the states south of it. In Rio de Janeiro, certainly the most interesting city of South America in regard to tropical horticulture, the climate is much warmer — in fact, tropical. I should think it useless to look around the gardens of that city for any northern apple or oak trees. Still it lies only twenty-five miles nearer the equator than Sao Paulo, the different climate being caused by the Sierra or Coast range of mountains, the last named city lying inland on the mountain plains, 2,000 feet above the level of the sea, while Rio de Janeiro on the ocean shore is far below the sweep of cooling mountain drafts, but is situated among radiating granite pillars, connected by long rock banks. Rio de Janeiro rivals any city on the globe for natural beauty, and what has been done there additionally, by human hands, we will see in another journey to gardens and parks on the famous bay of this city.

Gerhard Kleicken.

Cymbidiums

One of the finest sights for flower lovers is the cymbidiums in the greenhouses of Mrs. G. M. Whitin at Whitinsville, Mass., there being over eighty plants in seven- and eight-inch pots, seedlings raised by George McWilliam. These are a cross between Eburneum and Lowianum, for which Mr. McWilliam received a gold medal from the Massachusetts Horticultural Society and a silver medal from the Pennsylvania Horticultural Society. The plants are sending up many spikes, one having a spike over four



feet long, with eleven flower buds. One just opened was of large size, the basal sepals measuring over five inches long and one inch broad, the dorsal sepals over one inch, petals nearly one inch, and the lip one inch broad. The front is a brilliant crimson-maroon shade. All the other plants that have come in flower have the same lip of the Lowianum type, and the flowers have a diversity of yellow shades, some of a clear, distinct canary yellow, some darker, and others light brown or maroon. The fragrance resembles that of the narcissus, but not so strong. The flowers are fine for cutting for decoration, and last a long time.

Wm Swan

A Practical Help

We hope you will like Horticulture and recommend it to your friends in the trade. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make Horticulture the best known and the best liked professional journal in our country. Every $1.00 subscription sent in is a *practical help* to this end.

Plant Breeding for Profit and Pleasure

This paper is not intended for the professional or commercial plant breeder, but for those who have other employment, and could take up plant breeding and culture as a pastime and amusement, and also a possible profit and luxury. It is more especially addressed to mechanics, clerks, employees in factories, and farmers' children. The farmers' children are well situated for such work, and the others should strike for the country; get small places near electric or steam cars and convenient to their places of labor, where they can keep a cow, a few hens, and a pig to eat the weeds; grow their own vegetables and small fruits. In that way they will escape lots of adulterated foods. To have fresh eggs, milk, small fruits and vegetables is a luxury, and a guarantee for good health.

But this is not plant breeding, but paving the way to conditions necessary for plant breeding. After the above conditions are secured, one is in position to take on a little experimental work. He should learn to graft, bud, and cross by pollenating. I know of nothing more fascinating than the hybridizing and crossing of plants to cultivate and watch the development of the offspring. In this branch of plant breeding, the farmer and mechanic has an equal chance with the profession, for in most plants there are latent elements or characters that cannot be detected from any outward appearance; characters that in many cases belong to, or are descended from some remote ancestor; ancestors that were very much superior to those of their kind that we have now; and it is reasonable to suppose that at the time when vegetation and animals were making such mammoth growths, fruits were large in proportion, and that the wild fruits that we now have are but a degenerate remnant of a once nobler type. Were it not so, the improvement we make by cultivation and improved conditions would be more uniform, and the unimproved would be the exception, instead of the improved. In producing new fruits, it is only when those lingering characters of a once superior quality meet, that we get a decided improvement Those improvements, in many cases, are called sports or mutations; but they are, as I believe, the direct results of a union of the germ cells of some remote ancestor, hence, in hybridizing, the greater number of varieties that we put into a combination, the more likely we are to secure the union of some of those germ cells that have come down to us from a very remote period, so that anyone who makes a good selection for parents stands an equal chance with the profession.

For the benefit of those who may take my advice and go to the country, and for those who are there now, I will give my method of growing strawberries, which is as follows:

Select a piece of ground, at least one hundred feet square; place the henhouse in the center, then divide the rest into three equal parts and so arranged that the hens can go into any one division and be shut out of the others. Plant the strawberries in one division and keep the hens in the other two, the first year. The second year, set another division to strawberries, and keep the hens in the still vacant division. This second year will furnish a good crop of berries. The third year, set a new bed where the hens have been and dig up the bed set first, and run the hens in that division, and keep up the rotation from year to year, and the hens will do all the work, will keep the ground clear of weeds and grass. All one has to do is to set a new bed every year and gather the fruit, and if the "Marshall" is planted, berries will be grown as large as the eggs that the hens lay. Such a bed will supply more berries that one family can use, and very cheaply.

I have spent half of my life as a mechanic and have run my place, as nearly as conditions would permit, on the above plan. I have kept through the summer, a cow on one-half acre of land in good condition. I live fourteen miles out from Boston, and for many years went there every day to work, and cared for my garden, hens, and cow, mornings and nights, which gave me just the outdoor exercise I needed.

R. B. White

Dipladenias at Whitinsville, Mass.

Not the least among the many good things grown here are the dipladenias, of which there are over forty varieties, all seedlings, raised by Mr. McWilliam, for which he has already been awarded one gold medal, one gold gilt, and four silver ones, although he has exhibited only a small proportion of the plants as yet. In substance and size of flower, they are a great improvement over the old varieties. The colors range from bluish white to deepest red; some have yellow throat, and some of the lighter-colored ones are of particularly beautiful shades.

The dipladenias flower from May to December. The plants are grown in rough peat or fern root, and when done flowering, are gradually dried off. They are then cut back to several eyes, repotted in fresh peat and clean pots or pans, and are again ready for a year's work. When in growth are never shaded (which is different from old time methods), and when full grown they cover one side of a house up to the ventilators, with their gorgeous flowers. The temperature is never permitted to go over 50 degrees with fire heat. One of the older varieties (Boliviensis), Mr. McWilliam says, is one of the best things to stand the sun in a house window, and he finds it very useful in this respect. The flowers are white, smaller than some of the others. After growth has advanced a time, liquid fertilizer is given, which greatly helps to develop luxurious foliage and flowers.

Wm. Swan.

HORTICULTURE

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DEVOTED TO THE

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Diligence in business is always honorable and praiseworthy until it engenders the spirit of slave-driving; that's the limit.

Signs of rapidly approaching spring are in the air. For the nursery-man, the park-man and out-door gardener the campaign is on in earnest, and a short spring and a lively one seems to be the prospect.

Many of the seaside towns along the Massachusetts coast are considering the question of tree planting on their bleak, exposed shores. In early colonial days these wind-swept regions were covered with a heavy growth of pines and spruces and these can in time be replaced. It will take a long time to do it, but it is well worth the effort.

New Jersey's action in creating a State Forest Reservation Committee with authority to acquire large tracts of woodland for public holdings, is one of the most important acts in that State in many years and will have far-reaching influence. The wealth saved to the State will greatly exceed the cost of the enterprise, and the object lesson will not be without effect on other States that have hitherto been indifferent and even hostile to such investments.

As an adjunct to the suburban or village florists' work in tender material the hardy shrub and herbaceous plant business should now prove extremely profitable. The florist in such communities, where gardens are possible, has, if wise, not been unmindful of the rapidly changing taste, and will take a good share of the time heretofore given to the bedding plant and devote it to acquiring a selection of the more popular things in hardy material. The demand for such although already large is yet only in its infancy.

The salutary influence of a good example is seldom more strikingly exemplified than in the matter of home-gardening. Given an unkempt and utterly barren community, it needs only that one individual shall improve his home surroundings with lawn and flower-beds and trees, and the dormant love for such things will quickly awaken all through the neighborhood. And once begun the tranformation will go farther bringing into the home itself and its occupants that measure of tidiness and comfort which the well-kept garden suggests should be found there.

The rosarians, in their meeting at Boston last week, attributed the decadence of the rose to the disappointments resulting from improper stocks, high budding, swamp-grown Dutch material, and lack of common knowledge of the reliable hardy varieties. The remedies suggested were the imposition of higher specific duties on imported roses, the encouragement of American production, and the dissemination of practical information regarding roses and their culture. If by these means the successful rose-garden may be made possible as a feature of the American cottage garden, then activity along the lines suggested are in order. Get busy.

An element of danger seems connected with the offering of prizes for children's herbariums, as is done by some of our horticultural societies and schools, in that it means the persistent searching for and picking or uprooting rare forms of our native flora and tends to their ultimate extinction. The educational value of nature study carried on by this means is not equal to the devastation it must cause. In these days of kodaks the herbarium can well be dispensed with, excepting for scientific record. Children should be encouraged to cherish and protect rather than to kill out the little colonies of wild flowers which their inquisitive search through the fields and woods may disclose.

What shall we do about the moth pestilence which is now rapidly spreading over the New England States and will soon extend its devastating work over the entire country? Extermination of either gypsy or brown-tail is now an impossibility, and the destruction of millions of dollars worth of property is inevitable. Three years' visitation means sure death to the toughest tree. Many cannot withstand even that! Yet there are individuals everywhere who refuse absolutely to do anything to cleanse their own premises and thus render useless all that their neighbors may do to abate the evil. It looks as though compulsory legislation must be resorted to and some comprehensive plan adopted for the coöperation of national, state, and civic authorities, and the individual, in the fight against this epidemic. It is a public evil which the public must combat, and the sooner the matter is taken seriously in hand the less it will cost.

The rapidly growing appreciation of hardy ornamental planting about the home grounds has brought unforseen business to the nurserymen to such an extent that they find it impossible to meet the demands on many staple lines. Much of the Holland-grown material brought to this country is so soft that it is unfitted to withstand the climate after being planted out here, and it looks now as though it might be a number of years before home-grown stock will be in sufficient supply for such uses. Looking to the future, however, when competition may be expected, the dealer in ornamental nursery stock cannot do anything more to his ultimate advantage than the laying out of a section of the grounds in permanent plantings of the different varieties, arranged to display them in their most attractive light. Some nurserymen are going even farther and plant much of their regular stock of ornamental shrubbery in groups instead of the customary nursery rows. The effect of this object lesson on the purchaser cannot be other than impressive and a better price can usually be got for specimens so displayed.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

I congratulate you on the size and beauty of last week's HORTICULTURE. — S. J.

I am very pleased with the general style, make-up, and contents of your publication. You certainly deserve the fullest support from the craft for whom you are so efficiently catering. — W. A.

DOINGS IN NEWPORT

Spring has at last set in and with it the inevitable rush of all horticultural work. Every man is busy; some with business now in hand and others in preparation for a great amount of business in the near future.

The dahlia men are confident and enthusiastic as ever and in this line Catherine Duer is still in the foreground, but pressed hard from behind by debutantes from the cactus family.

In a favorite corner in every greenhouse establishment, large and small, can be seen Nicotiana Sanderæ. Every one is growing it and great are the hopes concerning it. Time alone will tell whether or not these hopes will be realized.

Nephrolepis Piersonii and N. elegantissima are bought and placed beside Nephrolepis Scottii. They seem to get along very well together. Scottii is no match in stature with its companions, but is fully as vivacious and spunky, and for these reasons will not likely take any back jaw. "Nemo me impune lacesit."

There were many purchases made of Pandanus Sanderæ about a year ago. Most of the plants bought were small, and disappointed many in not having much of their golden color, but now as these plants attain size, they are showing this characteristic in a marked degree. They are also showing something else they for some time failed to show — namely, suckers, These are quite numerous now on plants in 6- and 8-inch pots.

Mr. Eugene Hughes has been awarded the contract for the care of the city parks and playgrounds. Mr. Hughes is handicapped in not having any glass of his own; yet he is such a hustler that year after year he is able to underbid those having glass wherein to grow the plants for the parks. Mr. Hughes buys of them, however, therefore all are happy.

Some people might think HORTICULTURE's illustration of the Farquhar rose was a little exaggerated, but to any one seeing it growing in Newport last summer there was no exaggeration in the picture. The Farquhar rose is a beautiful as well as an extremely useful thing. It holds its flowers long and is a rapid grower, besides flowering fully as profusely as any of its class. There ought to be a great demand for it from people in different circumstances.

CHICAGO NOTES

F. Lautenschlager is visiting New York this week.

James Hartshorne, manager of the Chicago Carnation Company, Joliet, Ill., has returned from his trip east visiting Philadelphia, New York, and at the Rose Show in Boston. Mr. Hartshorne arranged a carnation deal with J. E. Haines, Bethlehem, Pa., his company acquiring a half-interest in the grand new red carnation, J. E. Haines. This variety scored 85 points at the American Carnation Show at Chicago. It was the object of much admiration at the Boston Rose Show.

GARDENING ELIZABETH AND THE SEED STORE.

About this season the seed shops hold out irresistible fascinations to the woman who loves the gentle art of gardening.

There are not two kinds of woman, but there are two moods in every woman; and there are days when a whole shopful of Paris finery wouldn't draw her like one of those prosaic looking stores where they keep seeds and garden hose and lawn mowers and insect-killers and such things.

"I'm going in to buy two dollars' worth of San Jose scale-destroyer," said one of these gardening Elizabeths. "It is to prevent scale on a tree that never has borne but one year in all its miserable existence, and probably never will. With this two dollars and what more I shall spend on my garden I could buy ten times the quantity of fruit and vegetables I shall need all summer."

Nevertheless, she fairly chortled with glee as she stepped over the threshold into the spic and span severity of the seed store, and there listened with shining eyes to scientific instructions on the correct usage of pest exterminators.

Of course, it takes an imaginative soul to see possibilities in the prosaic contents of a seed store. To some people dried peas are merely dried peas, a bag of grass seed is nothing more than chaff, and all the neat little packages of radish seed and lettuce seed and cucumber seed mean just nothing at all.

Not so to the woman who has gardening in her blood. Like a war horse eager for battle she sniffs hungrily around among these things.

Radish seeds are more than radish seeds to her. They are luscious crimson globes, already on her table of a warm spring evening. In a little paper of lettuce seed she can see rows of crisp and curly green heads under her hot bed sash. Every seed packet conjures up to her the smell of the earth, and the liquid chirrup of April robins, and the sweetness of blossom scents, and the tender greening grass on the front lawn.

"Wouldn't it be more reasonable if you were to to think of worms and weeds, and July suns, and pushing the lawn mower over that same green in grass," politely suggested a man to whom one of these gardening enthusiasts confided the foregoing raptures.

And she said hotly that of course it would not, and that if she stopped to think of that side of it she would probably never have any garden at all, and that it was usually the persons who persisted in dwelling on the gloomy side who never accomplish anything, anyway. Which rebuke the man took in so sweet and Christian a spirit that he was immediately promised the first pear — if there should be more than one — and also a share in the weeding.

There are drawbacks, to be sure; but you don't think of them in the seed store. Everything there is fair and inviting, and lures you straight on to financial ruin.

So that, if you've got a new dress or a spring hat yet to purchase, you'd better get it before you trust yourself among the fascinations of those stores where gardening seeds and tools are dispensed. — *Philadelphia Evening Bulletin*, March 13, 1905.

Bully for the *Bulletin*! That's the kind of talk a "Horticulturist" appreciates. Practical, well-written, inspiring; how much better worth giving space to than accounts of monstrosoties of the horticultural world, usually myths, which the average editor is generally in the habit of publishing. Let us praise them when they do well. A jolly is often more powerful to accomplish one's purpose than a knock! The daily press is a wonderful engine for good in horticulture if we only had the wit to make it run the right way. And the time is coming. I can see a great difference in comparing the present with the situation twenty years ago when I first became interested in the subject. — G. C. WATSON.

SOUVENIR DE PIERRE NOTTING

We are in receipt of a box of blooms of the new rose, Souvenir de Pierre Notting, from the Dingee & Conard Co. This is the variety so highly spoken of by Mr. Lynch at the last meeting of the Philadelphia Florists' Club. The buds are long and full, of good size, golden yellow, the edge of the petals beautifully tinged with carmine-rose. If all the other good points spoken of be as authentic as size, form, color, and fragrance, evidenced by the sample before us, this fine new Tea rose should become a popular favorite. It is of European origin and is said to be a cross between Maréchal Neil and Maman Cochet.

PERSONAL

Otto Gilles has taken a position in Wm. F. Kasting's Buffalo office.

D. Newlands, Buffalo, N. Y., is reported very seriously ill at his home

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Wm. H. Peirce of Lincoln is to build a new house for cucumbers this spring.

Burgess & Cooney, Maplewood, have just completed a small house 75×10 which they intend to use for bedding plants.

The general consensus of opinion seems to be that Boston added to her horticultural reputation at the recent rose show. All who attended assert it the best ever held in Boston.

Violet growers are throwing out plants preparatory to putting in stocks, etc., for Decoration Day. The damping off fungus has caused much loss of seedlings during the wet spell just passed.

It has been suggested that the two wholesale flower markets of Boston unite in an outing sometime during the coming summer. Boston is far behind other flower centers in the matter of social pleasures among the growers.

Asparagus,both Sprengerii and plumosus, have been in great demand this season. One grower tells me that at two-year old plant, set in a compost of two-thirds manure to one-third fibrous soil, with a top dressing of cow manure in the spring gives best results.

I have been observing a peak in the carnation line for the past month. A bloom of Flamingo was hybridized and the seed pod had formed and was about half grown when another flower bud pushed up along side of it and developed into a fairly good flower. If this is a habit of the Flamingo, it will be a great variety to grow for button-holes.

I notice an article in a daily paper bringing forward again the claims of the mountain laurel for the state flower. Personally I believe we can find a more suitable floral emblem for Massachusetts. Why not the carnation for both state and national? What flower is there in existence today which enjoys the immense popularity of this ever-present product of field and greenhouse. Anywhere from Provincetown to the Hoosac Tunnel can the carnation be obtained at any season of the year, while the mountain laurel is found in comparatively few localities. Ten years ago the modern carnation was in its infancy. Today more are grown than any other flower in the market, and ten years from now I hope to see the carnation the authorized floral emblem of the country whose people made it what it is.

THOS. F. MATTHEWS.

DON'T WORRY.

Don't worry 'bout de winter —
A-raisin' er a row,
'Spite er al you' cryin'
It's a-comin' anyhow!
Can't be allus summer —
Got ter come a snow;
Takes a sight er rainin'
Ter make de roses grow!

Don't worry 'bout de winter —
De summer tarried long.
You heerd a hundred mockin' birds
A-makin' sweetes' song;
De cabin fires'll warm you —
You'll trip it — heel-en-toe;
It takes a sight er rainin'
Ter make de roses grow.

Atlanta Constitution

American Rose Society

Annual Meeting and Exhibition — The Visitors Banqueted

The annual meeting held in the committee room of the Massachusetts Horticultural Society on Friday, March 24, was well-attended, there being nearly one hundred gentlemen present. After the reading of the president's address and reports of secretary and treasurer as described in our issue of last week, M. H. Walsh of Woods Hole, Mass., read the paper on hardy roses, which we present in this number. A question as to which are the best six hardy roses for the New England States brought out a very interesting discussion.

Mr. Walsh recommended for Hybrid Perpetuals, Baroness Rothschild, Clio, Ulrich Brunner, Prince Camille de Rohan, Baron de Bonstetin, and Capt. Hayward; for Hybrid Teas, Capt. Christy, Caroline Testout, Kaiserin Augusta Victoria, La France, Maman Cochet, and Madam Abel Chatenay. Mr. Walsh is very much impressed with Madam Abel Chatenay as a hardy outdoor rose, having experimented with it for two years even to the extent of exposure without any protection, which is the true test of hardiness. For six good hardy ramblers he recommended Lady Gay, Daisy, Sweetheart, Farquhar, and Philadelphia Rambler. We have some very good sorts of American origin in this class. Manda originated six or eight good varieties. Dr. Van Fleet raised the Philadelphia Rambler.

Several present did not think Baroness Rothschild should be included in the collection of six H. P. roses. Mr. Wheeler said with him it lives, but does not grow, and recommended General Jacqueminot and Magna Charta. Mr. Siebrecht took objection to Magna Charta and says he treats this variety as a shrub, as only one crop of flowers is to be had from this sort, whereas the others named are perpetual bloomers. Mr. W. N. Craig recommended as six hardy H. P. roses, Mrs. John Laing, Madam Gabriel Luizet, General Jacqueminot, Ulrich Brunner, Paul Neyron, John Hopper, and in addition to Mr. Walsh's five best varieties of ramblers suggested Dorothy Perkins. W. J. Stewart said Carmine Pellar ought to be included in the list of best six climbers.

It was also voiced that the society should take some action to check the demand for Holland-grown roses and should persuade to have a higher duty placed on this article. Mr. Walsh said we cannot ship American rose stock direct to Holland; it must first go to England and then can be sent to other European countries. Our society can benefit the people by explaining that Holland roses are swamp-grown and not fit for this country. They are diseminated largely by department stores and prove only too dear in the end. This stock is not adapted to this country and cannot stand our hot summer seasons.

A resolution constituting a publication committee and authorizing the issuance of periodical bulletins of information pertinent to the rose, also an annual report by the secretary, was unanimously adopted. Benjamin Hammond offered to assume the cost of printing 10,000 bulletins and his proposition was accepted with a vote of thanks.

Boston was selected as the place for the next meeting and officers for the coming year were elected as follows: President, Alexander Montgomery; vice-president, Robert Simpson; treasurer, Harry O. May; secretary, William J. Stewart. W. N. Craig was elected to fill the vacancy caused by Mr. Simpson's election to the vice-presidency and Messrs. M. H. Walsh and A. Farenwald were elected for the regular three-year term on the executive committee.



M. H. Walsh's Exhibit of Rambler Roses at Boston

HARDY GARDEN ROSES

How the American Rose Society may promote and encourage the successful cultivation of these flowers by Amateur Rose Growers.

Read by M. H. Walsh before the American Rose Society at Boston, March 24, 1905.

A great deal has been written by eminent rosarians, and poets so often have sung the praises of the most beautiful of flowers, the queen of them all, the rose. This flower is pre-eminently entitled to this honor for the many purposes for which it is valued from the cradle to the grave.

It is cheering to note the awakening of a new and live interest which is being manifested by amateurs and others in the growing of hardy garden roses. The increased demand for these plants for the past five years is sufficient proof.

About twenty years ago the National Rose Society of England was organized, the aim and object of this society being to promote and encourage the culture of the rose and to disseminate practical information for the proper growth and cultivation of this flower. It is through the untiring efforts and the influence of this organization that the rose is so generally grown by the amateur and the cottager as well as by the wealthy class.

The American Rose Society is organized on practically the same principle, the aim and object being to promote a greater interest in the growing of the rose and to educate in its culture those who love the flower and desire to grow it.

The American Rose Society includes in its membership men the greater part of whose lives have been devoted largely to the growing of roses, and who by their wide experience are well qualified to give the information so many people desire in relation to rose culture. The amateur rose growers especially are seeking and anxious to receive such directions.

There are several essentials in the growing of roses. The first is the soil; this would apply in a general way. A large number who buy roses know nothing about what soil is best suited for these plants. This I know from my experience with purchasers. While they are often familiar with the varieties, they admit they know nothing whatever about preparing the ground. Hundreds of these people would be willing to become members of the Rose Society, could they receive some practical cultural directions concerning rose growing.

It is surprising how many buy roses and continue to buy and replace them simply through lack of knowledge how to properly care for them. They buy through love of the flower for its own sake. Many know not whether they should be planted on the north side or in a southern exposure. They are not familiar with and know practically nothing about pruning and properly guarding against insect pests. In fact, the large majority of those who buy roses year after year have but little practical knowledge relating to the proper care and the attention these plants require for successful growth.

It seems to the writer that the Rose Society should give practical cultural directions and instructions to those seeking such, and begin and educate the masses who are interested in roses. This could be done by publishing a practical treatise on the rose for the amateur, or could be issued in the form of a bulletin to all members of the society

When this became known I believe the membership would rapidly increase and the bulletin, if found desirable, could give information applicable to all points of this country. There are members well qualified in the different sections of the country to give the practical cultural directions treating on soil, situation, pruning, selection of varieties of Hybrid Teas, Hybrid Perpetuals, Japanese and their hybrids, climbing roses, Rambler roses, and their various uses.

This matter wisely followed up would make the Rose Society the official organ, the recognized authority on all matters relating to the rose. At the present time the society may not be ready to take up this matter or approve of these suggestions, but I feel sure they will receive their earnest consideration.

The Carnation Society is prosperous, and the grand results in the increasing popularity of this flower, the perfection of the blooms in color, size, and texture are surprising and gratifying. The Chrysanthemum Society is prosperous and the wonderful advance in the development of this flower is marvellous. The Peony has also a society and they are formulating plans for the classification and correct naming of the varieties. These societies are to be congratulated for the zeal and perseverance and for the grand and noble work they have done in their respective spheres.

The Rose Society is waking to a realization of its duties which is gratifying, and the officers of the society have worked zealously the last year, and are entitled to the thanks and hearty coöperation of all its members. Let us hope that the interest now being manifested will stimulate our rose growers to produce new and superior varieties of American origin and better adapted to our climate.

May the good work continue and the rose always hold the honor and title of Queen of Flowers and the Garden!



Some of the Pot Grown Roses at Boston

THE BANQUET

The banquet given by the horticultural interests of Boston to the American Rose Society at Hotel Thorndike was attended by about one hundred and twenty-five ladies and gentlemen. The speakers' table was decorated with a beautiful centerpiece of rose Wellesley. The smaller tables at which the guests were seated in groups of six were also finely adorned with tall vases of roses on the side rows and low baskets down the center. A rich mantel decoration of American Beauties and profuse garlands of asparagus contributed to the extreme beauty of the banquet hall.

President James Wheeler of the Gardeners' and Florists' Club of Boston welcomed the guests, expressing his pleasure at meeting so many distinguished visitors and voicing the belief that, in the light of this year's great success, next year's rose show will overtax the accommodations of the halls. He then introduced as toastmaster, Wm. J. Stewart, who, after a few introductory words relative to the rose and the organization devoted to its interests, called upon President Alex Montgomery to respond to the toast, "The American Rose Society." Mr. Montgomery was received with tumultuous applause and expressed, in response, his appreciation of the honor conferred in the selection of Boston as the next meeting place.

M. H. Walsh was next called upon to receive on behalf of Miss Sarah B. Fay, the beautiful silver cup presented by Col. Chas. Pfaff, and made felicitous reply.

Frank H. Traendly, president of the New York Florists' Club, responded for that organization, which had shown its good-will toward Boston by sending so many of its members to this occasion, expressing appreciation of the hospitality extended by Boston.

Mr. Montgomery was then called up to receive and hold for the coming year the Lord & Burnham silver cup, on behalf of the Waban Rose Conservatories. Mr. Montgomery promised to



Cinerarias at Boston Exhibition

do his best to win the honor of filling it next year.

Adolph Farenwald, speaking for the toast to "The Florists' Club of Philadelphia," said some very interesting and inspiring things about the rose, and complimented Boston upon the grand exhibition he had been privileged to enjoy. The A. H. Hews & Co.'s cup, won by W. W. Edgar, was next handed over to that gentleman, who responded with a beaming "Thank you."

Mr. Parker, who was called upon to respond for the amateurs, spoke interestingly, saying that if he had to choose his occupation over again he would become a gardener or a florist.

Prof. Louis C. Elson, who was the next speaker, was witty and entertaining as ever. He acknowledged his inability to say much about the rose from experience, and he might not be able to tell the difference between a Lawson pink and a Standard Oil plant, but understood they were both obtained by grafting. He gave some interesting historical facts relative to the use of flowers in olden times, referring particularly to the famous tulip craze in Holland.

The gold medal presented by Peter Crowe was then handed to Mr. Montgomery, the winner, who responded appropriately.

H. A. Siebrecht applauded the good fellowship prevailing, and made a very flowery, rosy speech, complimentary to Boston and her visitors and recording a promise to come again a year hence.

Jackson Dawson, being next called upon, spoke of his efforts to bring the hardy roses into more general use and the methods by which this might be attained.

Peter Fisher responded for the American Carnation Society. He told of his love for the carnation to which he had devoted so many years of his life, but generously accorded the rose her title of the Queen of Flowers still, and told how he and Mr. Montgomery had yesterday exchanged compliments by becoming members of each other's society. He hoped that the two societies would work hand in hand together.

Benjamin Hammond responded gallantly to the toast of "The Ladies." The greatest carnation had been named in honor of a lady, and the thousands of dollars paid for it had been a better investment for the people's advancement than if the amount had been paid into a missionary society.

J. K. M. L. Farquhar was next called upon to speak for the Massachusetts Horticultural Society. He spoke of the pride that institution felt in welcoming such men as constitute the American Rose Society and have made such a notable exhibition of the florists' art. Our new roses and carnations are attracting the attention of Europe, and the future is full of promise for advanced horticulture in America.

J. B. Nugent, being called upon to speak for 28th Street, New York, the great center of rose distribution, did so eloquently and well. He was followed by Theodore Wirth of Hartford, who gave a brief description of the magnificent rose garden recently constructed by him in the Hartford parks.

M. H. Walsh was next, and received an ovation. He spoke enthusiastically of the rapid advancement of the rose interests now under way and promised great things for next year's exhibition, not only from New England, but the other large rose-growing communities all over the country.

President Wheeler made the closing remarks, and after a hearty vote of thanks had been vociferously presented to toast-master Stewart, the pleasant occasion came to a close.

SYMPTOMS OF SPRING

The tree by the gate is brown and bare
And it shows no signs of spring,
But a bluebird set on a swingin' branch
And warbled like anything.

His back was blue as the blue of the skies,
And his breast was pink as a rose,
And he looked like a bud of promise there
To bloom when the spring breeze blows.

And I guess he's going to bloom all right,
For another one came his way,
And he cottoned to her to beat the band
And they both had a lot to say.

He fuzzled his feathers and chirped and chirped,
And the other one cooed and cooed,
Then they shook their wings and away they flew
In the pleasantest kind of mood.

But they came back soon with straws in their bills,
A-chatterin' with delight,
And by and by, when the spring has come,
I guess they'll blossom all right.

W. J. Lampton, in *N. Y. Sun.*



Cyclamens at Boston Exhibition

Spring Exhibition at Boston



Pot Plants at the Boston Exhibition

The exhibition which filled the spacious halls of the Horticultural Building to overflowing and drew for four days an enormous attendance of the Hub's best society was pronounced by all to have been in all respects the most notable ever held in Boston. The large hall was devoted to the plant groups, of which the cinerarias, cyclamens, and promiscuous greenhouse groups were remarkable as heretofore for the wonderful perfection of the specimens and the taste and finish shown in their arrangement. Above and beyond all in novelty and startling effect were the trained specimen rambler roses from M. H. Walsh, these being a part of the American Rose Society's exhibition. Nothing approaching this display has ever been seen in this country or elsewhere. The cinerarias of the stellata section came in for especial admiration. The small exhibition hall held the orchids and bulbous plant displays. To attempt to particularize on the rare and beautiful varieties of orchids shown would tax the limits of this volume. As in the case of most of the other sections we must let the premium list hereto appended tell the story.

The large lecture hall was devoted to the carnation and rose exhibits, the latter being the American Rose Society's department and including both plants and cut flowers. The number of H. P. roses and pot-grown plants was fully up to expectations, something that the Rose Society has not succeeded in drawing out heretofore, and a welcome relief from what would otherwise be a monotonous display of commercial florists' varieties. As to quality, it was superb throughout.

Here, as with other sections of the great display, we leave the premium list to give details of varieties and their exhibitors.

A fine vase of rose Richmond arrived from E. G. Hill & Co. on Friday, and was the center of much admiration.

The carnation growers made a superb showing in this hall also. The rose men had reason to congratulate themselves on the results of their own efforts as, with anything like the meager rose shows of recent years, they would have been literally swamped and buried by their enterprising carnation brethren. The showing of the latter was simply superb as to quality, variety, and extent. The sweet peas from William Sim astonished the visitors. Flower stems two feet long and bearing as a rule three flowers each are not a common sight.

The brick arches of the large hall were clothed high up with white pine boughs faced with great masses of bougainvillea and the bases grouped about with enormous acacias and genestas making a gorgeous effect. Altogether the arrangement of the exhibition was the best yet in the new building.

Following is the list of awards:

MASSACHUSETTS HORTICULTURAL SOCIETY

Theodore Lyman Fund

Indian Azaleas — Six distinct named varieties: 1st, E. W. Breed; 2d, Edward McMulkin.

Society's Prizes

Palms. — Pair: 1st, Mrs. John L. Gardner; 2d, Geo F. Fabyan. Orchids — Three plants: 1st, Geo F Fabyan; 2d, Edmund W. Converse; 3d, Edward J. Mitton. Hard-wooded Greenhouse Plants. — Two or more genera, four, in bloom: 1st, Ed. A. Clark. Acacia; — Specimen plant in bloom: 1st, Dr. C. G. Weld. 2d, Dr. C. G. Weld; 3d, Edmund W. Converse. Climbing Rose. — Specimen plant, in bloom: 1st, M. H. Walsh; 2d, Francis Skinner, Jr; 3d, M H Walsh Collection of Rambler and other roses, suitable for landscape or decorative purposes, grown in pots: 1ts, M. H. Walsh; 2d, ditto; 3d, ditto. Hardy Primroses and Polyanthuses. — Twelve plants of distinct varieties: 1st, Wm. Whitman; 2d, Mrs. John L. Gardner; 3d, Wm. Whitman. Cyclamens. — Ten plants: 1st, Geo. F. Fabyan: 2d, Edward J. Mitton. Ten plants, in not over seven-inch pots: 1st, Geo. F. Fabyan; 2d, Dr. C. G. Weld; 3d, Geo. F. Fabyan. Single plant: 1st, Geo. F. Fabyan; 2d, Ed. A. Clark; 3d, Ed. A, Clark. Cinerarias. — Six varieties: 1st, Geo. F. Fabyan. Three varieties: 1st, Geo. F. Fabyan; 2d. Edmund W. Converse. Cineraria stellata. — Six plants: 1st, Mrs. John L. Gardner; 2d, ditto. Hyacinths. — Twelve named varieties: 1st Mrs. John L. Gardner; 2d, E. A. Clark; 3d, Bussey Institution. Three pans, not to exceed 12 inches: 1st Wm. Whitman; 2d, Mrs. John L. Gardner; 3d, Ed. A. Clark. Single pan: 1st, Geo. F. Fabyan; 2d, Mrs. John L. Gardner; 3d, ditto; 4th, Wm. Whitman. Tulips. — Six 8-inch pans: 1st, Wm. Whitman; 2d. E. A. Clark. Three 8-inch pans: 1st, E. A. Clark; 2d, Wm. Whitman; 3d, E. A. Clark. Three 10-inch pans, 12 bulbs of one variety in each: 1st, Wm. Whitman; 2d, E. A. Clark; 3d, E. A. Clark. Polyanthus Narcissus. — Four 8-inch pots: 1st, Mrs. John L. Gardner; 2d, E. A. Clark. Jonquils. — 6 pots: 1st, Mrs. J. L. Gardner; 2d, Wm. Whitman; 3d, E. A. Clark. Narcissi. — Six 8-inch pots: 1st, Wm. Whitman; 2d, Mrs. John L. Gardner; 3d, E. A. Clark. Three 8-inch pots: 1st, Wm. Whitman; 2d, E. A. Clark; 3d, E. A. Clark. Crocuses. — Three 10-inch pans: 1st, Bussey Institution. Roman Hyacinths. — Six 8-inch pans: 1st, E A. Clark; 2d, Wm. Whitman. Display of Easter plants: 1st, Ed. A. Clark; 2d, Edward McMulkin. General Display of spring bulbous plants. — 1st, Bussey Institution; 2d, Ed. A. Clark.

Special Prize

Offered by Mrs Anna C Ames, Boston

Rose, "Mrs. Oliver Ames" Vase of fifty blooms 1st, W. H. Elliott; 2d, Waban Rose Conservatories.

Special Prize

Offered by the Gardeners' & Florists' Club, Boston

Vase of Mixed Roses — Twenty-five blooms, not less than four varieties: 1st, Col. Chas. Pfaff; 2d, W. H. Elliott.

Society's Prizes.

Hybrid Perpetual Roses — Twelve blooms, in not less than four named varieties: 1st, Col. Chas. Pfaff, 2d, E. A. Clark; 3d, Miss S. B. Fay. Twelve blooms of Ulrich Brunner: 1st, J McFarland Tender Roses in Vases Twelve blooms of American Beauty: 1st, Arthur Griffin, 2d, W H Elliott Twenty-five blooms of The Bride: 1st, W H Elliott Twenty-five blooms of Bridesmaid: 1st, W. H Elliott Twenty-five blooms

of Liberty: 1st, W. H. Elliott. Twenty-five blooms of any other variety: 1st, W. H. Elliott. Carnations.— Vase of one hundred blooms, of one variety, with foliage: 1st, F. R. Pierson Co.; 2d, Patten & Co.; 3d, Peter Fisher. Twenty-five blooms of any named Crimson variety: 1st, Peter Fisher, Ruby; 2d, Wm. Nicholson, Harry Fenn; 3d, Patten & Co., Harry Fenn. Twenty-five blooms of any named Dark Pink variety: 1st, Peter Fisher, Nelson Fisher; 2d, Patten & Co., Nelson Fisher; 3d, Wm. Nicholson, Mrs. T. W. Lawson. Twenty-five blooms of any named Light Pink variety: 1st, Wm. Nicholson, Enchantress; 2d, Peter Fisher, Enchantress; 3d, Patten & Co., Enchantress. Twenty-five blooms of any named Scarlet variety: 1st, Guttman & Weber, Victory; 2d, Peter Fisher, Flamingo; 3d, F. R. Pierson Co., Flamingo. Twenty-five blooms of any named White variety: 1st, Peter Fisher, Lady Bountiful; 2d, Patten & Co., Lady Bountiful; 3d, Peter Fisher, Princess. Twenty-five blooms of any named Yellow Variegated variety: 1st, Backer & Co., Eldorado; 2d, Patten & Co.; 3d, Backer & Co. Twenty-five blooms of any named White Variegated variety: 1st, Patten & Co., Mrs. M. A. Patten; 2d, H. A. Stevens Co., Mrs. M. A. Patten; 3d, Peter Fisher, Mrs. M. A Patten. Pansies.— Forty-eight cut blooms, not less than twenty-five varieties: 1st, James Anderson; 2d, Mrs E M Gill. Violets — Bunch of one hundred blooms of Lady Hume Campbell: 1st, H. F. Woods; 2d, L. E. Small; 3d, E. Brigham. Bunch of one hundred blooms of any other Double variety: 1st, F. R. Pierson Co., Marie Louise; 2d, Norris P. Comley, Neapolitan. Bunch of one hundred blooms of Princess of Wales: 1st, H. F. Woods. Orchids.— Display of not less than six genera and fifteen named species and varieties, filling not less than twenty bottles: 1st, Langwater Gardens, North Easton, the Appleton Silver Gilt Medal; 3d, Col. Chas. Pfaff, the Appleton Bronze Medal.

Awards for Vegetables

William J. Walker Fund

Radishes.— Four bunches of Turnip Rooted: 1st, A. Nixon; 2d, A. E. Hartshorn; 3d, W. W. Rawson. Cucumbers.— Pair: 1st, W. W. Rawson; 2d, W. Warburton. Dandelions Peck 1st, A. E. Hartshorn. Lettuce.— Four heads: 1st, W. W. Rawson; 2d, Hittinger Fruit Co.; 3d, Walter E. Lenk. Rhubarb.— Twelve stalks: 1st, H. R. Kinney. Mushrooms.— Twelve specimens: 1st, H R. Kinney; 2d, A W Crockford, 3d, H. A Stevens Parsley.— Four quarts: 1st, Hittinger Fruit Co.; 2d, Walter E. Lenk.

Additional Awards

Gratuities. Edward McMulkin, palms and bay trees; Lager & Hurrell, display of orchids; Julius Roehrs Co., display of orchids; Geo. McWilliam, cut sprays of Cymbidium eburneo-Lowianum; Bussey Institution, forced shrubs and plants; Edmund W Converse, display of cyclamen, primulas, etc.; Harvard Botanic Gardens, display of Primula obconica and palms; R. & J. Farquhar & Co., display of spring bulbs and plants; Carl Jurgens, vase of lily of the valley; F. R. Pierson Co., vase of American Beauty roses; Miss Sarah B. Fay, hybrid roses; M. H. Walsh, group of seedling rose Urania; M. A. Patten, three vases of carnations; Wm. Nicholson, display of carnations; L. E. Small, vase of white seedling carnation No. 3; Guttman & Weber, vase of carnation Victory; Wm. Sim, two vases of sweet peas; M. A. Patten, two vases of mignonette; The Misses Eldridge, Bougainvillea spectabilis; Edward McMulkin, Yellow Marguerites; James L. Little, Antirrhinums; Mrs. E. M. Gill, display.

Silver Medal. E. O. Orpet, seedling cattleya × (C. Olivia — C. intermedia × C. Trianæ).

First Class Certificates of Merit. Henry H. Barrows & Son, Nephrolepis Barrowsii; F. R. Pierson Co., rose Baby Rambler (Mme. Norbert Levavasseur); Mrs. M. F. Plant, Phalaenopsis amabilis Rimestadtiana; Julius Roehrs Co., Cymbidium Lowianum.

Honorable Mention. Lucius H. Foster Estate, Nephrolepis Dorchester; The Misses Eldridge, Bougainvillea spectabilis, Lager & Hurrell, Cypripedium glaucophyllum; Bayard Thayer, Phlox divaricata, forced; Chicago Carnation Co., Carnation Cardinal; John E. Haines, new carnation John E. Haines; John Murchie, new carnation Fred Burki; W. J. & M. S. Vesey, carnation Glendale; Wm. Sim, new sweet pea Earliest Sunbeam; M. H. Walsh, new white seedling rose, double; Julius Roehrs, Ficus Cannonii.

AMERICAN ROSE SOCIETY PRIZES

Teas and Hybrid Teas

Division A. Twenty-five cut blooms (open to all). American Beauty: the 2d prize to W. H. Elliott. Bride: 1st, W. H. Elliott. Bridesmaid: 1st, W. H. Elliott; 2d, Montrose Greenhouses. Mme. Hoste: 1st, John Breitmeyer's Sons. Souvenir de President Carnot: 1st, R. T. McGorum; 2d, J. McFarland. Golden Gate: 1st, Floral Exchange; 2d, Robert Simpson. Bon Silene: 1st, John Breitmeyer's Sons. Mrs. Oliver Ames: 1st, W. H. Elliott. Ivory: 1st, Floral Exchange. Safrano: 1st, W. H. Elliott. Liberty, 1st: W. H. Elliott; 2d, Waban Rose Conservatories. Any other named disseminated variety: 1st prize "A," Mr. Fitzpatrick, Killarney; 1st prize "B," Robert Simpson, Uncle John; 1st prize "C," John Breitmeyer's Sons, La Detroit. Queen of Edgely: 1st, Floral Exchange.

Division B. (Open to growers having not more than forty thousand feet of glass in roses.) Twelve cut blooms. American Beauty: 1st, Briarcliff Greenhouses. Bride: 1st, Montrose Greenhouses; 2d, R. T. McGorum. Bridesmaid: 1st, Montrose Greenhouses; 2d, Robert Montgomery. Souvenir de President Carnot: 1st, Robert T. McGorum; 2d, J. McFarland, Mrs. Oliver Ames: the 2d prize to Robert Montgomery.

Hybrid Perpetuals

Division D. Twelve cut blooms. (Stems not less than twelve inches.) Ulrich Brunner: 1st, J. McFarland. Mrs. John Laing: 1st, J. McFarland.

Division E. (Open to private gardeners and amateurs only.) Twelve cut blooms. Magna Charta: 1st, Col. Chas. Pfaff.

Division F. Special Prizes for Cut Blooms.— Special Prize presented by Benjamin Dorrance.— For display of cut blooms of roses, not less than five varieties and not less than twenty-five blooms of any one variety, to be competed for by growers outside of a radius of one hundred and fifty miles of Boston: Brant Bros., Utica, N. Y., a Silver Cup.

Special Prize offered by John B. Nugent, Jr. Twenty-five blooms of any red rose, not disseminated previous to 1903: 1st, John N. May, Gen. MacArthur.

Special Prize offered by John B. Nugent, Jr. Twenty-five blooms of any pink rose, not disseminated previous to 1903: 1st, John Breitmeyer's Sons, La Detroit.

Special Prize offered by President Alexander Montgomery. Twenty-five blooms of any American seedling rose, introduced in or since 1901: John Breitmeyer & Sons, La Detroit.

Special Prize offered by Siebrecht & Sons. Fifty blooms of Killarney, grown within two hundred and fifty miles of Boston: Mr. Fitzpatrick.

Special Prize offered by Treasurer John N. May. Display of blooms not less than ten varieties, in a space of fifty square feet: Col. Chas. Pfaff.

"Executive Committee's Prizes." Fifty blooms of American Beauty roses: 1st, Waban Rose Conservatories; 2d, Briarcliff Greenhouses. Fifty blooms of any other variety: 1st, A. Farenwald, Liberty; 2d, W. H. Elliott, Liberty. Six blooms of any variety introduced in 1901 or subsequently: 1st, John N. May, General MacArthur. Twenty-five blooms of any rose of American origin, not yet in commerce, either Tea or Hybrid Tea, seedling or sport: Waban Rose Conservatories, rose Wellesley.

Special Prize offered by E. A. Clark, for twenty-five blooms of hybrid perpetual roses, not less than six varieties, for private gardeners only: Col. Chas. Pfaff.

Pot Plants

Division G. (Open to all.) Twenty-five hybrid perpetual roses in pots, not less than ten varieties: Miss S. B. Fay (M. H. Walsh, gardener), a Silver Cup presented by Col. Chas. Pfaff.

Twelve hybrid perpetual roses in pots, not less than five varieties: W. W. Edgar . presented by M. H. Walsh.

Six plants, any one variety, in not larger than eight-inch pots: F. R. Pierson, Baby Rambler.

Specimen plant, in pot: 1st, W. W. Edgar, Mme. Eug. Verdier; 2d, M. H. Walsh, Urania.

Climbing Roses in Pots

Specimen plant, trained or not, in pot or tub, not less than twelve-inch: 1st, M. H. Walsh, Lady Gay.

Display of Rambler and Climbing roses in pots, covering not less than fifty square feet: M. H. Walsh, presented by F. R. Newbold.

Peter Crowe prize, for best vase of Bride and Bridesmaid: Waban Rose Conservatories, a Gold Medal.

Pierson & Sefton Silver Cup, for vase of fifty assorted roses, not less than three varieties: the Waban Rose Conservatories.

Cup offered by A. H. Hews Co., for best rose plant, not a climber: W. W. Edgar.

Prize offered by Welch Bros., for best vase of roses in the hall: Waban Rose Conservatories.

Lord & Burnham Trophy: Waban Rose Conservatories, prize awarded in conjunction with the 1st (cash) prize for fifty American Beauty roses in Class F.



Bird's-eye View of the Home Grounds of Mount Hope Nurseries, Rochester, N. Y.

New Single Dahlias



View of Field of Single Dahlias

Following Mr. Robertson's very interesting and instructive article on dahlia culture in the issue of the 18th, I am very glad to take up the subject where he dropped it. The closing paragraph, "There are also many good varieties for cutting purposes in the Single, the Decorative, and the Show classes, especially in the Singles, since we have got several varieties of the 20th century type."

This mention of the new single dahlias is most appropriate. In no other class of dahlias has such marked improvement been shown. The old style and class of single dahlias are rapidly being entirely out-classed. The Century type of singles is considered the most beautiful of all dahlias, and through judicious crossing and inter-breeding,we now have a complete range of colors and shades in all the various classes of single dahlias.

Compare the new single cactus dahlia, The Fairy, with any of the old type single cactus. The plant is medium to dwarf, growing only about three feet high, branching low down abundantly, throwing long slender branches on which are produced the dainty little flowers in the utmost profusion. Flowers, though single, are of cactus form, the petals being narrow, pointed, and beautifully twisted, making them airy and graceful. The color is pure white, suffused and overlaid the most chaste and delicate rosy lake. It is one of the most profuse of all dahlias and as it can be cut in sprays, is invaluable for bouquets and other cut-flower purposes. Mr. Patrick O'Mara considered it from an artistic stand-point, the finest thing we had on the place.

In contrast to the beautiful Fairy, we have Harvard, a sturdy plant, growing five feet high, branching, with immense vivid crimson flowers, 6 to 8 inches in diameter, being in every way the exact opposite and probably the highest type yet reached in the new Century dahlias. Between these two types as represented by Harvard and the Fairy we have almost every combination of colors, shades, and tints in every conceivable type, running down through the Century collection, through the single Fancy, the single Show, and other types.

What could be more striking than a large plantation of single dahlias arranged for color effect? For comparative value of single and double dahlias for color effect, we would call attention to the illustration of "Field View of Single Dahlias" in this issue. On the extreme left of the picture are parts of rows, and through the middle of the picture, single dahlias, next to which will be seen a few double dahlias, while over on the right, another block of single dahlias. We are simply proving what we have said that single dahlias will give greater results, better results, more pleasing results for any kind of planting out-side, where display is wanted, whether for color work, or simply a general display, than any combination of double dahlias. Besides for cut-flower purposes they have an artistic beauty possessed by no other flower.

Among the new single dahlias, take the bright red Ami Downie, the grandest of all the purple leaved sorts. The Raven, dark maroon, shaded black, with beautiful, fern-like foliage. Gracie, white suffused blush, as dainty and chaste as the Raven is dark and striking. Striking, maroon tipped white, and best described as a single Frank Smith.

In white, what can surpass Alba Superba? So many flowers have had this name, but in this case the name can hardly do justice to the flower, which could almost be classed as a Century. Then Gaillardia, named from its striking resemblance to Gaillardia grandiflora, excepting that the imitation is far superior to the original. Pure yellow St. George still holds its own, as the best.

Among the Fancy, we would mention Danish Cross, bright scarlet with a white stripe; Minnie, white spotted and penciled pink and crimson; Paul, white margined rosy crimson; SingleEckford, an exact reproduction of the Fancy Lottie Eckford in single form. Buttercup, probably the most profuse blooming of all dahlias, and undoubtedly the best of all for bedding purposes. It is not uncommon to see a hundred blooms and hundreds of buds on a single plant. It branches out from the bottom in a semi-trailing form, making a plant as broad as high.

So we could go on did space permit.

Lawrence K. Peacock.

Among the fine cyclamens that at tracted so much attention at the Boston spring exhibition, some of the varieties represented were Grandiflora alba, Princess May, light pink, Duke of Fife, dark pink, James' Blood Red and Brilliant, both dark red.

NEWS OF THE CLUBS AND SOCIETIES

NEW LONDON COUNTY HORTICULTURAL SOCIETY

The bi-weekly meeting of the New London County Horticultural Society was held in New London, Conn., March 22. There was a good attendance, including a number of members of the society from Norwich. The larger part of the meeting was taken up with a discussion of the subject, "Some Hardy Herbaceous Plants Which Give a Succession of Blooms During the Season." The discussion was opened by John Malona, and was participated in by the members of the society. Eight new members were elected, making the present membership of the society 136.

It was decided to have a social at the next meeting, which will be held April 5 in Elks' hall, New London. Whist and other games will be played, and refreshments will be served. An admission will be charged. The sum of $125 has been contributed for cash prizes for coming shows in addition to the cups and medals which the club now has. A schedule of competitions has been issued by the shows committee.

BUFFALO FLORISTS' CLUB.

The regular meeting and election of officers took place at Wm. F. Kasting's hall on Tuesday evening last and was well attended.

The officers elected were Louis Neubeck, pres.; Chas. Guenther, vice-pres.; James Peak, secretary; E. C. Brucker, financial secretary; Chas. Keitsch, treasurer. At the close of business the members were seated to the best part of the program, "the feast," Mr. Wm. Scott being appointed toast-master. There was music and song galore. Many selections were sung by the club's tenor, Chas. Keitsch, and baritone, J. Bailey. Our able toast-master made it a point not to call on the younger heads for speeches on account of their bashfulness, although a good many were heard from. The out-going president also made some excellent remarks appertaining to the newly elected officers. Good remarks were heard from Hon. Geo. Urban, Jr., also from Louis Neubeck, Wm. F. Kasting, D. B. Long, Chas. Rooney, Chas. Keitsch, and many others. Mr. Andy Adams on "Good Ideas for Window Decorations" was interesting. Several out-of-town florists were present and a most enjoyable time was had by all who attended.

SPRING SHOW AT PHILADELPHIA.

The annual spring show of the Pennsylvania Horticultural Society took place March 28th, 29th, and 30th. The weather was ideal on the opening day, 74 degrees in the shade, and cloudless. Although not as large at some of its predecessors, the exhibition was very creditable as to quality and in some instances a distinct advance. This was notably the case in the Michell and Waterer classes for hyacinths, tulips, and narcissi. It is safe to say that these were superior in variety, culture, and up-to-date-ness to anything shown heretofore. Foliage plants were in force and the judges had their work cut out. In addition to the central group in the main hall, from Fairmount Park, and the many pairs and single specimens, there were four groups that taxed the judges nearly an hour before they could agree, the honor finally going to the Hopper collection, which had been grown and staged by John Dodds. Second honors went to the Paul group, grown and staged by Joseph Hurley, and special mention was awarded to the Pepper exhibit as only two prizes were offered.

A grand lot of Primula obconica was another feature we think never before equalled, five entries and all good; but the first prize lot from Robertson of the Pepper forces was certainly grand and deserved first. As far as we can make out Mr. Robertson carried off more firsts than any exhibitor in the show and we are almost afraid to say too much about him for fear he'll get that lofty and maybe fall over backwards. S. Batcheler, gardener to Clement B. Newbold, took second; Frank Ibbotson, gardener to J. Vaughan Merrick, third in this obconica display.

Xavier Scmitt deserves credit for his tasteful arrangment of the group of foliage plants from Fairmount Park, and Oglesby Paul, his superior, did the right thing in granting him permission to show what the park has in up-to-date stock to the superior people, the four hundred; and the experts who have an idea that if it's the city it must be rank and a sight to make the angels weep. It was a fine group — none better ever shown here. Let the scoffers make a note of it.

W. K. Harris sent a fine pair of Bougainvillea Sanderiana, which graced the bottom of the main stairway along with a pair of Robertson's first-prize specimen hydrangeas. Two creditable collections of orchids were on view, one from the Julius Roehrs Co., Rutherford, N. J.; the other from Lager & Hurrell, Summit, N. J. Frank Ibbotson took first on cyclamens and also had an exhibit of a new giant mignonette with spikes fifteen inches in length, which he calls "Enormous."

There was a good showing of Cineraria polyantha (stellata), first for specimen and group of six going to Samuel Batcheler, gardener to C. B. Newbold, with second to Wm. Kleinhanz, gardener to P. A. B. Weidener. The Drexel place only sent one entry, a Gleichenia flabellata for which a first was awarded, second going to Batcheler's Davallia Fijiensis plumosa. Arthur Mallon, gardener to Edgar J. Scott, won first for six pans of narcissus and second for two pans of variegated tulips in the Waterer competition.

John Hobson, gardener to Edward Schmidt, took first for the best specimen foliage plant, and was also in the race for the best four specimen azaleas.

The carnation men were enterprizing as usual and several interesting exhibits were staged. John E. Haines brought his famous red, and some promising seedlings in white, pink, and variegated. John Kuhn put up four lots under number. J. L. Dillon sent Crisis, the fine new scarlet, and the Strafford CarnationFarm staged six fine vases: Genevieve Lord, Flamingo, Enchantress, Judge Hinsdale, Harry Fenn, and Adonis.

John McCleary, gardener to Mrs. R. J. C. Walker, was a successful prize winner in a number of the bulb classes, especially in hyacinths and tulips in pans in the Michell collection, and in specimen plants in the geranium classes, where he ran a close race to that king of geranium growers, Wm. Robertson.

George C. Watson.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The annual meeting of the Executive Board will be held at the New Willard Hotel, Washington, D. C., on Tuesday, April 4, 1905. Members of the Society or others having suggestions to make whereby the usefulness of the organization may be increased and the good of the profession promoted in any of its branches, are cordially invited to send such suggestions in care of the secretary and they will receive careful attention.

Address

Wm. J. Stewart, *Secretary*,
11 Hamilton Place, Boston. Mass.

NOTES.

On Tuesday, April 4, at 8 p.m., the meeting of the Kentucky Society of Florists will be held at the store of C. W. Reimers, Louisville. A sweet pea show for June is under consideration. Mrs. C. B. Thompson is expected to read a paper and a good attendance is urged.

New York and Madison, N. J., met each other on the alleys at Newark last week and New York got a thrashing. Many explanations of this disaster are given by the aggregation from the big city, but the fact remains as above stated, and Madison is looking for other worlds to conquer.

GREENHOUSES BUILDING OR PROJECTED.

Hartford, Conn. — Edward Welch, proposed additions.

Auburn, N. Y. — Budlong Company, range of houses.

Hyde Park, Mass. — George Anderson, carnation house.

Norwich, Conn. — M. J. Field, rebuilding.

Thompsonville, Mass. — C. F. Brainard, greenhouse, office, and work room.

Portchester, N. Y. — F. Leonhard, two houses.

Hitchings & Co. report contracts for the following:

Winchendon, Mass. — Hon. Morton E. Converse, one house.

Milton, Mass. — Mrs. Roger Wolcott greenhouse and work rooms.

Boston, Mass. — Mrs. B. P. Cheney, conservatory.

Robert Miller, formerly of Butte, Mont., brother-in-law of Alex. Montgomery, of Natick, Mass., has leased the cucumber forcing houses of E. A. Lamphrey at North Brookfield, Mass., and will transform them into rose houses.

Ford Bros. have removed from West 30th street to 48 West 28th street, New York City, and have now one of the most commodious and complete establishments in the country for the wholesale flower trade. The ice room is 14 feet by 22.

OBITUARY

Alfred Chase, father of Stephen Chase the carnation grower of Nashua, N. H., died on March 28. Mr. Chase was for many years a leading market gardener of Nashua.

HAVE YOU KEPT YOUR EYE ON

LA DETROIT

The Grand New Pink Rose we disseminated Last Season?

WHAT IT DOES FOR US

It grows stronger and more vigorous than any Rose we ever grew.
It produces more high-grade and long-stem blooms than any Rose we ever grew.
It produces as many flowers as Bridesmaids planted in same house, same date, same quality of stock.
It is doing well with nearly every one that planted it last season.
It is in a class by itself and has COME TO STAY.

WHAT IT DID AT BOSTON

Won the Alexander Montgomery Special Prize, $25.00 for 25 Blooms of Best American Seedling Rose introduced in or since 1901.
Won the John B. Nugent, Jr., Special Prize, $25.00 for 25 Blooms of any Pink Rose not disseminated previous to 1903.
Won First Prize, $10.00, Class A 31, for 25 Cut Blooms.

PRICE: $12.00 per 100, $100.00 per 1000
from 3-inch pots. READY NOW

John Breitmeyer's Sons Detroit, Mich.

In writing to advertisers, kindly mention HORTICULTURE

BUSINESS CHANGES

The greenhouses of Mrs. Wm. McClunie at Hartford, Conn., have been sold to Edward Welch, proprietor of "The Tannel Greenhouses."

W. W. Wells, late with C. D. Zimmerman, of Buffalo, has taken the greenhouses of E. J. Buxton and will conduct the business as heretofore.

The greenhouses lately conducted by B. F. Engle at Junction Park near New Brighton, N. Y., have been sold to The Junction Park Greenhouse & Nursery Co., and will be managed by Otto Miner of Rochester.

NEWS NOTES

Chas. Rayner of Anchorage, Ky., has received a verdict of $200 in his suit against E. H. Marcus for selling him inferior putty.

The Chicago Carnation Co. has bought one-half interest in John E. Haines' phenomenal scarlet carnation named John E. Haines.

PHILA. PLANT MARKET

Advance booking for Easter plants has already commenced. S. S. Pennock and Leo Niessen Co. both report brisk demand especially for azaleas, Ramblers, and Easter lilies. Quite a scarcity is anticipated on the azalea supply on account of the absence of the big Dreer block this season and the wise ones are taking time by the forelock.

Robert J. Dysart
Public Accountant and Auditor
Simple methods of correct accounting especially adapted for florists' use.
Books Balanced and Adjusted
Merchants Bank Building
28 STATE ST. - - - BOSTON
Telephone, Main 58
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BABY RAMBLER ROSES
for winter flowering; will have about 2000 strong plants this coming fall; also, **Crimson Ramblers, Hybrid Perpetuals,** and **Hybrid Teas** in the leading sorts, **Manetti Rose Stocks,** and a full line of **Ornamental Nursery Stocks.** For prices see our trade list; address all communications to our American agents: AUGUST RÖLKER & SONS, 31 Barclay St., New York, or P. O. Box 752
W. FROMOW & SONS, Bagshot, England

MONEY BY "TELEGRAPH"
ORDER NOW
THE TELEGRAPH CERANIUM
Will make money faster than any plant you handle this season. Will Sell at Sight off your bench for $3.00 per doz. and give tone to your establishment. Extra strong 2½ in. plants, $15.00 per 100. On sale by the leading houses and
Thos. DeVoy & Son, Poughkeepsie, N. Y.
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Cypripediums
ACAULE-PARVIFLORUM-SPECTABILE
LAUREL and AZALEA SHRUBS
SPRUCES - MOUNTAIN ASH - PINES
HARDY FERN ROOTS
SPECIAL PRICES
ARTHUR D. DOWNS, Box 15 LENOX, MASS.
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THE BABY RAMBLER ROSE
A few hundred nice plants in 2½-inch pots; ready for 3½, $15.00 per hundred.
F. E. PALMER, Brookline, Mass.
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Forest Tree Seeds and Seedlings
Large Surplus Tree and Shrub Seeds, Nursery grown and Collected Seedlings. Small Seedlings for Lining Out a Specialty. Send for Trade List.
FOREST NURSERY & SEED COMPANY
Irving College, Tenn.
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GARDENIAS
Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.
A Splendid Easter or Spring Pot Plant
YOUNG ROSES
Own Root AMERICAN BEAUTY. First crop now ready from 2½-inch pots. $6 per 100; $50 per 1000.
GRAFTED BRIDES and BRIDESMAIDS on Irish Stocks. $12 per 100.
Robert Scott & Son
Sharon Hill, Del. Co., Pa.
In writing to advertisers, mention HORTICULTURE

The Century Set of Superb New Dahlias

See Color Plate in our Catalogue (mailed free)

The Greatest Offer Ever Made, 10 for $1.00

PRICE: Single varieties in this set, 15 cts. each; 4 for 50 cts.

MAID OF KENT (No. 1). — A beautiful variety. Scarlet-**maroon** at base of petal, point of each petal **white.**

HARRY FREEMAN (No. 2). — **Pure, glistening snow white.** Medium size, good form. Borne on long stems

GLORIOSA (No. 3). One of the most superb Dahlias in existence, with unusually large and beautifully formed flowers, having very broad petals, filling the flower well into the center. At a distance it does not look unlike a Peony. The color is the richest that can be had in any flower – **bright, velvety crimson,** almost the color of the Prince Camille de Rohan Rose. The plant grows to a medium size, producing flowers freely on long, stiff stems.

CLIFFORD W. BRUTON (No. 4). — The finest clear yellow decorative Dahlia in existence. The flowers are immense in size, 5 to 6 inches across, perfectly full and double like a Chrysanthemum. **Rich, deep, lemon-yellow** flowers are produced on tall, stiff stems, desirable for cutting

SYLVIA (No. 5). New pink Dahlia. One of the most valuable, decorative Dahlias ever produced. A profitable commercial pink. Flowers from 4 to 6 inches in diameter, of fine form and full to the center, which is **white, shading to soft pink** on the outer petals. The plant is a strong, healthy grower and the finely shaped flowers are set on very long, stout, but graceful stems.

ERNEST CANNEL (No. 6). — **Bright terra-cotta** shaded **orange.** Compact solid flower, with short broad petals.

GRAND DUKE ALEXIS (No. 7).—Probably the finest type of the large, double quilled Dahlia. It bears a magnificent flower of the largest size, distinctly unique in form, the petals are rolled up so that the edges overlap. Color **pure, soft white,** the tips of the petals edged and suffused with delicate pink.

RUBY QUEEN (No. 8).—A distinct variety, with large, full flowers of fine **ruby-purple.** Long stems; free blooming.

A. D. LIVONI (No. 9). — Very valuable as the best **clear pink.** Magnificently formed flowers, perfectly full and double, of a **beautiful soft pink.** The petals are quilled, of splendid substance and closely formed about the center.

KEYSTONE (No. 10).—**Bright rose-pink** with wide stripes of **rich crimson.** Strong grower and free bloomer.

Special Offer *One each of the ten great new, large flowering varieties described above and illustrated in our catalogue, post-paid for $1.00. Please order as* "THE CENTURY SET."

THE DINGEE & CONARD CO. :: West Grove, Pa.

(LARGEST ROSE GROWERS IN THE WORLD)

Seventeen other choice varieties 15c. each; 10 for $1.00, post-paid. See catalogue for description Mailed for the asking

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Hybrid Perpetual Roses

THE BEST NEW AND OLD VARIETIES

Hybrid Tea Roses, The Best and Hardiest Varieties

New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha

Strong Field-grown Plants to Flower this Summer

Best varieties Pæonies, Phlox, and Hollyhocks

Catalogue describes all the above

M. H. WALSH, Rose Specialist

WOODS HOLE, MASSACHUSETTS

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AT AUCTION Tuesday, April 4
11.30 A. M.

At 54 and 56 Dey Street

Grand Collection of CONIFERS

SUITABLE FOR ITALIAN AND SUNKEN GARDENS

CONIFERS of all varieties, RHODODENDRONS, HYDRANGEAS, AZALEA MOLLIS, LILACS, ROSES, Standard and Dwarf, leading varieties; BULBS and ROOTS.

Sales every Tuesday and Friday

WM. ELLIOTT & SONS, Auctioneers, New York

Asparagus Plumosus Nanus Seed

True Stock, Lath House Grown, Now Ready, 40c per 100, $2.00 per 1000

SMILAX SEED.— May and June, 20c oz., $1.00 lb.

SMILAX PLANTS. — Strong Clumps' $10.00 per 1000.

ASPARAGUS PLUMOSUS NANUS PLANTS.— From 3-inch Pots, 50c per 1000; from transplanted beds, ready for 4-inch Pots at $6.00 per 100, $50.00 per 1000; from transplanted beds, ready for 5-inch Pots, $10.00 per 100. (Express prepaid.)

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In quantities of 5000, **$1.80 per 1000**

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STOKESIA CYANEA

Field Grown Plants, $4.00 per 100; $30.00 per 1000; Seed, $12.00 per lb. 1000 STRONG FIELD ROOTS. TRITOMA UVARIA, $5.00 PER 100. PFITZERI, $7.00 per 100.

Cash Please **Benj. Connell, West Grove, Pa.**

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ROOTED CUTTINGS

COLEUS

Golden Queen, Verschaffeltii and Fancies

60 c. per 100 $5.00 per 1000

AGERATUM

Princess Pauline and Stella Geurney

75 c. per 100 $6.00 per 1000

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THE

BROCKTON DAHLIA FARM

The largest and finest collection of Dahlias in the United States, consisting of all the leading varieties. Send for catalogue.

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5,000

Strong Transplanted

LADY CAMPBELL **VIOLETS** $1. per 100 $3. per 1000

Cash with Order

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GROW NEW ASTER KATE LOCK

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It speaks for itself

Has been grown 48 inches high

Blooms, 5 to 5 in., with very full centers, stems, 36 to 40 inches, shown at largest exhibitions in Canada and taken everything before it. Colors, white, daybreak, and mixed, $2 00 per 1000 seed, not less than 1000 seeds sold.

(No agents.) Do not send checks.

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California Privet Cheap

100,000 well grown plants, 3 to 4 ft., selected, $4.00 per 100; $25.00 per 1000. 2½ to 3½ ft., 7 or more branches, $2.50 per 100; $17.50 per 1000. 20 to 30 in., 5 or more branches, $2.00 per 100; $13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, $1 50 per 100; $7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

CHAS. BLACK, - HIGHTSTOWN, N. J.

CALIFORNIA PRIVET

1, 2 and 3 YEARS

Also Cuttings. Any reasonable offer will be accepted on lots of 5,000 to carloads.

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HELP HELP HELP HELP

I have a surplus of 200,000 Cal. Privet in all sizes, and I want you to help me to dispose of it. This privet is well grown, well graded, strong and stocky. I am sure it will please you. It will pay you to let me quote you before you place your order

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New Dahlias of Proved Merit

Embracing a complete set of **12 New Century Dahlias**; **25 Superb New Cactus Dahlias**; **New Collarette Dahlias**; **New Giant-Flowered Dahlias**; **New Fancy Dahlias**; **New Decorative Dahlias**; **New Show Dahlias**; **New Single Dahlias.** In all, 38 of the most wonderful Single Dahlias ever produced, and 44 of the grandest Double Dahlias.

All exquisite in form, shape, and coloring; free bloomers and **MONEY MAKERS.** Faithfully and truthfully described in our new illustrated descriptive catalogue, mailed free upon request.

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The PHILADELPHIA CUT FLOWER CO.

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Choice Beauties, Brides and Maids. Fancy Carnations.

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Write for List and Prices

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Azaleas, Lilies, Ramblers, Rhododendrons, Bougainvilleas, Gardenias, etc.

Get your order in early. Price list on application

Samuel S. Pennock

THE WHOLESALE FLORIST OF PHILA.

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BOSTON'S BEST

....All Varieties....

SHIPPED TO ALL POINTS

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Lowest Wholesale Rates

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FERNS

$1.50 per 1000

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Sweet Peas and Pansies

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EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK / TREATMENT / PACKING

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO March 22	ST. LOUIS March 28	PHILA. March 28	BOSTON Mar. 29
ROSES				
Am. Beauty, Fan. & Sp	32 00 to 42.00	..... to 30.00	35 00 to 40.00	15 00 to 25 00
" Extra	25 00 to 30 00	20.00 to 25.00	25.00 to 30.00	8.00 to 12 00
" No. 1	18 00 to 20 00	12.50 to 15.00	15.00 to 20.00	4.00 to 6.00
" Lower grades	4.00 to 10.00	5.00 to 10 00	8.00 to 12.50	2.00 to 3.00
Bride & Maid - Fan. & Sp	6 00 to 8 00	..... to	..... to 10 00	4 00 to 6.00
" " Extra	5 00 to 6.00	6.00 to 8.00	8 00 to 10 00	3 00 to 4 00
" " No. 1	3 00 to 5.00	..... to	6 00 to 8 00	1.00 to 2.00
" " Lower gr	2 00 to 3 00	3 00 to 5 00	2.00 to 4.00	..... to .....
Liberty, Fancy & Special	8 00 to 10 00	..... to	20 00 to 25 00	8.00 to 12.00
" extra	6 00 to 8.00	..... to 6 00	15.00 to 20.00	6 00 to 8.0
" No. 1	4 00 to 5 00	3 00 to 5.00	10 00 to 12 50	3.00 to 4.0
" Lower grades	2 00 to 3 00	..... to	6 00 to 8 00	1.00 to 2.0
Golden Gate } Best	6 00 to 8 00	..... to 8 00	6 00 to 8 00	..... to 6.00
Ivory } Medium	4 00 to 5 00	..... to	4 00 to 6.00	..... to 4.00
Chatenay } Culls	2 00 to 3 00	4 00 to	2 00 to 4.00	..... to 2.00
CARNATIONS				
Fancy Class	2 50 to 3.00	..... to 3 00	3 00 to 5.00	1.00 to 2.00
General Class	1.50 to 2 00	1.50 to 2.00	2 00 to 3 00	.75 to 1.00
Lower Grades	.75 to 1.00	..... to 1.00	1.00 to 2.00	..... to .50
VIOLETS				
Special	.50 to .75	..... to	.60 to 75	.40 to .60
General	.30 to .50	..... to .25	.40 to .50	.25 to .35
Single	.30 to .50	..... to	.25 to .35	.20 to .25.
ORCHIDS				
Cattleyas	40 00 to 60 00	..... to	..... to 50 00	50 00 to 60 00
Cypripediums	12 50 to 15 00	..... to	..... to 15.00	..... to .....
BULBOUS				
Lilies	8 00 to 12 50	8 00 to 10 00	10 00 to 12 50	5.00 to 8.00
Lily of the Valley	2 00 to 3 00	2 00 to 3 00	3 00 to 4 00	2.00 to 4.00
Roman Hyacinths	2 00 to 3 00	2 00 to 3 00	1.00 to 3.00	1.00 to 2.00
Paper White Narcissus	..... to	2 00 to 3 00	..... to	1.00 to 2.00
Daffodils	1.50 to 3.00	2.00 to 3.00	1 00 to 4 00	2.00 to 3.00
Tulips	1 50 to 4 00	..... to	2 00 to 4 00	2.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8 00
Freesia	..... to	..... to	1 00 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Mignonette	3 00 to 10 00	..... to	2 00 to 4 00	1.00 to 2.00
Sweet Peas	.50 to 1 00	.25 to .40	.50 to 1 00	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	..... to	..... to .75	.75 to 1.00
" Croweanum	..... to	..... to	1 25 to 1 50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12 50 to 16 00	12 50 to 15 00	15 00 to 20 00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	35 00 to 60 00	..... to 50.00
" " bunches	..... to	..... to	25 00 to 60 00	35 00 to 50 00
" Sprengeri "	..... to	..... to	25 00 to 50 00	35 00 to 50 00
Gardenias	16 00 to 25 00	..... to	10 00 to 12 50	..... to .....
Lilac per bunch	.75 to 1 00	.75 to 1 00	1.00 to 2 00	.75 to 1 00

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids, Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

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J. A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

In writing to advertisers, kindly mention HORTICULTURE.

Thos. F. Galvin

Boston's Leading Florist

124 Tremont Street

Opposite Park St. Church

CONSERVATORIES

Boylston and Fairfield Streets

BACK BAY

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Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street - - NEW YORK

American BEAUTIES

AND

QUEEN OF EDGELYS

WELCH BROS.

City Hall Cut-Flower Market

15 PROVINCE ST., BOSTON

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FRED EHRET WHOLESALE FLORIST

Center for BRIDES, MAIDS, BEAUTIES CARNATIONS, Etc.

1403-5 Fairmount Ave., PHILADELPHIA.

Established 1890

Mention HORTICULTURE when you write.

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance 'Phone, 1435 Court.

In writing to advertisers, mention HORTICULTUR

CUT-FLOWER MARKET REPORTS.

BOSTON Flowers of all kinds are coming in very plentifully to this market, and there has been a big drop in value of roses and carnations. Of the latter, Prosperity is the only variety commanding a price above the regular quotations. Tea roses are very abundant, and only the most exclusive grade can realize top quoted figures. Violets are going.

BUFFALO The market shows a slight improvement, although there is an abundance of stock and bulbous flowers are at a stand-still. Carnations are moving more satisfactorily.

CINCINNATI Long-stemmed Beauties are again in and selling readily. This grade of Beauties has been the only flower which for the past few weeks could be called scarce. Bulbous stock comes in heavily and meets a very slow sale.

NEW YORK This market is well supplied with every possible cut flower product. Business is not at a standstill, by any means, but the receipts are so heavy that the amount disposed of makes but little impression on the whole. Jacq and Brunner roses are in and are good. Carnations are of splendid quality. Violets are beginning to shrink. If the present warm sunlight continues, there will be some surprises in the Easter lily problem.

PHILADELPHIA Market recovered but faintly last week, the fine weather bringing in flowers in large quantity. Beauties are still away down and an unremunerative crop. Liberty suffers also, although they will probably average up a little better than Beauty. Bride and Bridesmaid in large supply, and, with demand only normal. Carnations braced up a little towards end of week, but are still low. If violets last until Easter they will do well. Cattleyas, cypripediums, and dendrobiums are still plentiful enough. Good smilax and Sprengeri scarce. Plumosa market easy, as the fine southern stock handled by Pennock has kept the market well supplied.

ST. LOUIS Demand fairly steady for the past four or five days. Supply heavy on all lines. Southern jonquils have made their appearance in this market.

IMPERIAL FLORIST CO.

14 Washington Ave. N.

MINNEAPOLIS, MINN.

WHOLESALE and RETAIL

Will open April 15. **Consignments Solicited.** We are in a position to give prompt and liberal returns to all.

WEILAND-AND-RISCH

CHICAGO'S RELIABLE

Wholesale Growers and Shippers of

CUT FLOWERS.

59 Wabash Ave., CHICAGO.

Send for weekly price list.

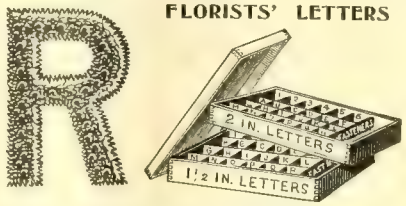
WHOLESALE FLORISTS

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BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

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J. H. LEE, Pres. GEO. N. MARCH, Treas.

Letters, Strips and Emblems

Koral Manufacturing Co.

Office and Factory
26 HAWLEY STREET, BOSTON, MASS.
Telephone, Main 3978-1 J. B. Olden, Mgr.

A satisfied advertiser is the best advertiser.

Green Silkaline.

Do not be put off with cheap substitutes.

John C. Meyer & Co.,

80 Kingston St., Boston, Mass.

Kindly mention HORTICULTURE when writing.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers, mention HORTICULTURE

H. Bayersdorfer & Co.

50-56 North 4th Street

PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

REED & KELLER

122 W. 25th St., New York, N. Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending March 25, 1905.	First Half of Week beginnig Mar. 27 1905.
ROSES		
Am. Beauty, fan. and sp	10 00 to 18.00	10.00 to 18.00
" extra	6 00 to 8.00	6.00 to 8.00
" No. 1	2.00 to 4.00	2.00 to 4.00
" Lower grades	.50 to 1.00	.50 to 1.00
Bride and Maid, fan. and sp	5.00 to 6.00	5.00 to 6.00
" " extra	3.00 to 4.00	3.00 to 4.00
" " No. 1	2 00 to 3.00	2.00 to 3.00
" " Lower gr	1.00 to 1.50	1.00 to 1.50
Liberty, fan. and sp.	15.00 to 25.00	15.00 to 25.00
" extra	8.00 to 10.00	8.00 to 10.00
" No. 1	3.00 to 4.00	3.00 to 4.00
" Lower gr	1.00 to 1 50	1.00 to 1.50
Golden Gate, Ivory, Chatenay: Best	5.00 to 6 00	5.00 to 6.00
Medium	3.00 to 4 00	3.00 to 4.00
Culls	1.00 to 2.00	1.00 to 2.00
CARNATIONS		
Fancy Class	2.50 to 3.00	2.50 to 3.00
General Class	1.50 to 2.00	1.50 to 2.00
Lower Grades	.50 to 1.00	.50 to 1.00
VIOLETS		
Special	.40 to .50	.40 to .50
General	.20 to .30	.20 to .30
Single	..... to	..... to .....
ORCHIDS		
Cattleyas	40.00 to 50.00	40.00 to 50.00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	6 00 to	6.00 to .....
Lily of the Valley	1 00 to 3 00	1.00 to 3.00
Roman Hyacinths	2 00 to 3.00	2.00 to 3.00
Paper White Narcissus	..... to	..... to .....
Daffodils	1.50 to 2.00	1 50 to 2 00
Tulips	2.00 to 5 00	2.00 to 5.00
Callas	..... to	..... to .....
Freesia	.25 to 1.00	.25 to 1.00
MISCELLANEOUS		
Mignonette	.50 to 3.00	.50 to 3.00
Sweet Peas	.50 to .75	.50 to .75
Adiantum Cuneatum	50 to 1 50	.50 to 1.50
" Croweanum	1.50 to 2 00	1.50 to 2 00
" Farleyense	12 00 to 15 00	12.00 to 15.00
Smilax	12 00 to 20 00	12.00 to 20.00
Asparagus Plumosus, strings	20 00 to 50 00	20 00 to 50.00
" " bunches	15 00 to 40 00	15.00 to 40 00
" Sprengeri "	10 00 to 25 00	10.00 to 25.00
Gardenias	10 00 to 25 00	10 00 to 25 00
Lilac, pe bunch	35 to 75	.35 to .75
Jacq	4.00 to 20.00	4 00 to 20.00
Brunner	4.00 to 20.00	4.00 to 20.00

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Wholesale Commission Florists
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Fancy home grown Carnations a specialty
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Tel. 2559 Madison Sq.

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Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

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Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please,
Traendly & Schenck
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Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
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Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
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THE ORIGINAL
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FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
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383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

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Pittsburg Cut Flower Co., Ltd.
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WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI March 28	BALTIMORE March 28	BUFFALO March 28	PITTSBURG March 21
ROSES				
Am. Beauty, fan. and sp.	40 00 to 45.00	30 00 to 35 00	25.00 to 35 00	50 00 to 60.00
" extra	30 00 to 35.00	20.00 to 25.00	10 00 to 20 00	30 00 to 40.00
" No. 1	15.00 to 20.00	10 00 to 15 00	8 00 to 10 00	15 00 to 20.00
" Lower grades	4.00 to 8.00	4 00 to 6 00	2.00 to 8 00	6 00 to 10.00
Bride and Maid, fan and sp.	6.00 to 8 00	..... to 8 00	8 00 to 10 00	15.00 to 18.00
" " extra	..... to 5.00	..... to 7 00	6.00 to 8.00	10 00 to 12.00
" " No. 1	3 00 to 4.00	..... to 6 00	4.00 to 6 00	6 00 to 8 00
" " Lower gr.	..... to 2.00	4.00 to 5 00	2 00 to 4.00	3.00 to 4.00
Liberty, fan. and sp.	6.00 to 8.00	..... to	8 00 to 12.00	18.00 to 20 00
" extra	4 00 to 5 00	..... to	6 00 to 8 00	15.00 to 18 00
" No. 1	3.00 to 4.00	..... to	4.00 to 6.00	6 00 to 10.00
" Lower gr.	..... to 3.00	..... to	2 00 to 4.00	4 00 to 5.00
Golden Gate } Best	..... to 8.00	..... to 8 00	5.00 to 6 00	10.00 to 12.00
Ivory } Medium	..... to 6 00	..... to 6.00	4 00 to 5 00	6 00 to 8 00
Chatenay } Culls	3 00 to 4 00	4.00 to 5 00	2 00 to 4.00	3.00 to 8.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	3.00 to 4.00	2 50 to 3 00	3.00 to 4.00	5.00 to 6.00
General Class	..... to 2.00	1 50 to 2.00	2.00 to 2 50	3 00 to 4 00
Lower Grades	..... to 1.00	.75 to 1 00	1.00 to 1.50	1.00 to 2.00
VIOLETS				
Special	..... to .75	..... to .50	.40 to .50	.75 to 1.00
General	..... to .50	.25 to .35	.30 to .40	.60 to .75
Single	.25 to .35	30 to .50	..... to	.30 to .40
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	6 00 to 12.50	10.00 to 12.50	12 00 to 18.00
Lily of the Valley	3 00 to 4.00	3 00 to 4.00	2.00 to 4.00	3 00 to 4.00
Roman Hyacinths	2.00 to 3 00	1 50 to 2.50	2.00 to 3 00	2 00 to 3 00
Paper White Narcissus	2.00 to 3.00	2 00 to 3.00	2.00 to 3.00	2.00 to 3.00
Daffodils	2 00 to 3.00	.50 to 1.00	2.00 to 3.00	4 00 to 6.00
Tulips	2.00 to 4.00	2 00 to 4.00	..... to	2 00 to 4.00
Freesia	8 00 to 10.00	.50 to 1.50	1.00 to 3.00	3.00 to .....
Callas	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	2 00 to 4.00	2.00 to 3.00	1.00 to 3.00
Sweet Peas	.50 to .75	.50 to .75	.40 to .75	.50 to .75
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1 25 to 1 50
" Farleyense	..... to	..... to	10.00 to 12 00	10.00 to 12.00
Smilax	12.50 to 15.00	15 00 to 20 00	..... to 15.00	12 00 to 15 00
Asparagus Plumosus, strings	..... to 50.00	25 00 to 50 00	40.00 to 60.00	30 00 to 50.00
" bunches	..... to 35.00	25 00 to 50.00	..... to	20.00 to 35 00
" Sprengeri "	25.00 to 35.00	25 00 to 50.00	..... to	30.00 to 50.00
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Bulb Flowers at Market Rates,
all season through.

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HELP.
Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
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Hitchings & Co., 233 Mercer St., New York.
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Plants tender or hardy.
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Vaughan's Seed Store, Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in. pots, $9 per doz.; 50 plants at $60 each; 100 plants at $50 each; 500 plants at $45 each; 1000 plants at $40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.

ORCHID PLANTS.
Lager & Hurrell, Summit, N. J.
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Importers, Exporters, Growers, Hybridists.
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
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C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
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SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.

SOUTHERN SMILAX.
E. A. Beaven,
Evergreen, Ala.

STEAM TRAP.
E Hippard, Youngstown O

STERILIZED SHEEP MANURE.
W. Elliott & Sons, New York.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y.
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The Chicago Lifter.
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Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

Chicago.
J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.

New York.
J. K. Allen, 106 W. 28th St., New York.
Bonnot Bros., 55-57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
James Hart, 117 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
Moltz, 55-57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Chas. Smith, 55-57 West 26th St., New York.
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A. L. Young & Co., 54 West 28th St., New York.
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Young & Nugent, 42 West 28th St., New York.

Philadelphia.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Fred Ehret, 1403 Fairmount Ave., Philadelphia, Pa.
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S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa
Philadelphia Cut Flower Co., 1516-1518 Sansom St., Philadelphia, Pa.
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
Pittsburg Florist Ex., 228 Diamond St., Pittsburg, Pa.

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TREES, FRUIT AND ORNAMENTAL.
Ellwanger & Barry, Mt. Hope Nurseries, Rochester, N. Y.
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UNLEACHED HARDWOOD ASHES!
John Jovnt, Lucknow, Ont.
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WHOLESALE FLORISTS.
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Thorburn's Bulbs

LILY OF THE VALLEY

PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for - - - $24.00
Two or more cases at - $7.50 per 1000

J. M. THORBURN & CO.,
36 Cortlandt St., New York.

In writing to advertisers, mention HORTICULTURE.

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE

MEADOWVALE FARM, BERLIN, N. Y.

Schlegel & Fottler Co.

26 So. Market St., Boston, Mass.

Are Headquarters for

Seed Potatoes

Vegetable, Flower and Grass Seeds

Send for Catalogue

In writing to advertisers, mention HORTICULTURE

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts
Leading Machines
32 So. MARKET ST., BOSTON
In writing advertisers, mention HORTICULTURE

Quality Seed Bulb Plant S

Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street NEW YORK

There is only one kind of advertising that is wise. It's the kind that makes business. Cut out the rest.

SPECIAL STOCK FOR EASTER

The New Jersey Moss & Peat Co.

Established 1890. BARNEGAT, N. J.
IRVING PREDMORE, Prop.

Wholesale and Retail Dealers in MOSS and PEAT
10,000 Bales on hand for 1905

We take pleasure in handing you this circular and trust you will take time to read it and be benefited by it. We have been in this business for the past fifteen years, so in dealing with us you are sure of getting the benefit of our fifteen years' experience in this line.

We quote Moss at the following prices; Natural Growth Moss, Bales of 5 barrels, $3.25; Bales of 10 barrels, $4.25, this grade is for fine design work. Selected Stock Moss, Bales of 5 barrels $2.60; Bales of 10 barrels, $5.00, this grade is for Very Fine Design Work and Special Occasions For Nursery Stock Moss please write us for prices. Cash with order we will allow six per cent off.

LEAF MOULD, FIBROUS AND ROTTED PEAT we name the following price per One Barrel Sack; Lots of One to Five Sacks, $1.00, 5 Sacks, at 90 cents, 10 Sacks at 80 cents, 15 Sacks at 75 cents, 20 Sacks at 70 cents and 25 Sacks at 65 cents.

GREEN CLUMP MOSS, per Sack, 1 to 5, $1.50; 5 Sacks, $1.25; 10 Sacks, $1.12, and 20 Sacks $1.00. SILVER SAND, per barrel 1 to 5, $1.75; 5 bbls. $1.50; 10 bbls. $1.25; 20 bbls. $1.12; 25 bbls. $1.00

HONORABLE MENTION.
Society of American Florists.

This is to certify that Irving Predmore is entitled to HONORABLE MENTION for having clean and well packed SPHAGNUM MOSS and PEAT. Exhibited at Cleveland, Ohio, August 18-21, 1896.
WILLIAM SCOTT, Pres. WM. J. STEWART, Sec.

NOTICE. Enclose this coupon with cash and you may have your choice of these Special Offers.

NATURAL GROWTH SELECTED

1-10 Barrel Bale for	$3.90	$4.50
2-10 " " "	7.75	8.75
3-10 " " "	11.50	13.50
6-10 " " "	22.50	25.50
10-10 " " "	37.00	40.00

This offer will expire on June 1, 1905.

Trusting you will favor us with an order, we are,
Yours respectfully,
New Jersey Moss & Peat Co.

Reference, R. & J. Farquhar & Co. 6-7 South Market Street, Boston, Mass.

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y

In writing to advertisers, mention HORTICULTURE

W. W. RAWSON & Co. Arlington Tested SEEDS BOSTON MASS

RAWSON'S

Arlington Tested
SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
In writing to advertisers, mention HORTICULTURE

BULBS

HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
17 Battery Pl. New York
In writing to advertisers, mention HORTICULTURE

Plant your advertisements here. It is good ground and will yield famously.

Tuberoses, Lily of The Valley

Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 No. Market St. Boston, Mass.
In writing to advertisers mention HORTICULTURE

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
In writing to advertisers, mention HORTICULTURE

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

Electros for Sale

WOODCUTS and HALF-TONES of artistic floral designs, funeral, presentation, etc.

Needed by every retail florist as examples from which to take orders for design work.

CHEAP
Address N. Care HORTICULTURE
11 Hamilton Place, Boston

FOR SALE or LEASE

AN EXCEPTIONAL BARGAIN for the right party; greenhouse with 8000 sq. ft. of glass. Hot water heating plant with practially new boilers, 2½ acres of good land, in fine location, well established business in full operation.

Apply to **ANNA W. KIDDER**
Waltham, Mass

WANTED

A young man to take care of Orchids; must be thoroughly competent, of good habits, and interested in his work. One with an English training preferred. Send references to
Wyndhurst Gardens, Lenox, Mass.

FOR SALE 8 miles from Boston, 2 greenhouses, 20 x 60 ft.; 1 greenhouse 10 x 30 ft.; 1 sash house 8 x 60 ft.; four inch heating pipe, all in good condition. For particulars apply to F. W. Sawtelle & Co., Readville, Mass.

FOR SALE. — Five greenhouses stocked with carnations, roses, asparagus, etc., 5,000 feet of glass, hot water heat; 8 minutes walk from station, 1 minute from electrics; established 30 years. Ill health cause of sale. A. F. BELCHER, Foxboro, Mass.

WANTED. — A young man used to vegetable garden work on a private place. Single. Apply stating wages to HORTICULTURE, No. 140 G, 11 Hamilton Place, Boston.

SITUATION WANTED — Young man, age 26, has had one year's experience in general greenhouse work. Good worker, strictly temperate, can furnish best references.
Address Clarence E. Bruce, Brattleboro, Vt. Care of Chas. Ford.

Northern Star Potato

Having grown several acres of this wonderful Potato last season, when it sold at **$1000.00 a ton**, we can supply the true stock, in especially prepared, iron bound, well ventilated cases of 100 lbs. net, F. O. B. Southampton, $3.00 per case.

Brinkworth & Sons, Ltd.

Potato Growers and Experts
SOUTHAMPTON, ENGLAND
In writing to advertisers, mention HORTICULTURE

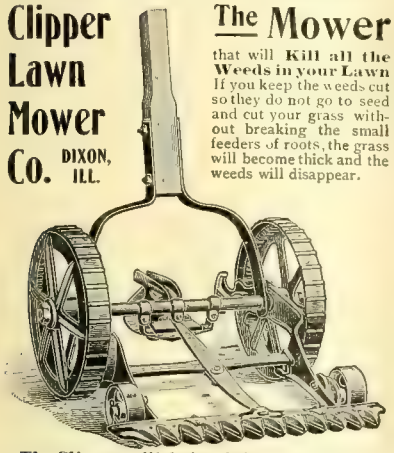
NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST



FOR SALE BY SEEDSMEN
24 sheets, 75c.; 144 sheets, $3.50, 288 sheets, $6.50
(Only 2¼ c. each)
Packed in Friction-Top Tins
Preventing Loss by Evaporation
Mfd. by KENTUCKY TOBACCO PRODUCT CO.
LOUISVILLE, KY.
In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.



The Mower that will Kill all the Weeds in your Lawn
If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7; No. 4—21-in. Mower, $8. Send draft, money order or registered letter.
In writing to advertisers, mention HORTICULTURE

ELECTROS

For Sale — Electros of half-tone illustrations used in this and previous numbers of HORTICULTURE.

For prices, etc., address

HORTICULTURE
11 Hamilton Place, Boston

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St. Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds.

Below we list some of the more important items:

BOILER TUBES. — Two carloads of 3½- and 4-inch good Boiler Tubes that have been used. We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value. The ends have been cut square, they have been rattled and they are free from scales and imperfections. They are in long lengths. They are just what you require for extending your Heating System.

We furnish with these tubes at small cost wrought iron sleeve couplings threaded one size larger than the boiler tubes themselves. For large quantity orders we will make special low prices. At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES. — We offer for sale the three complete Greenhouses used on the Exposition Grounds Each Building, 22 × 300 ft., with all latest improvements, double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings. Sketch and full information on application. We will sell these Greenhouses singly.

HOT-BED SASH. — 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. — 20,000 Paper Flower Pots that have never been used. Low prices for quick delivery.

25,000 PLANTS. — All the Plants now stored in the Hot House are in first class condition They are being properly taken care of and consist of the following: — 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternanthera, 2,000 Echeveria, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others.

LUMBER. — 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery. We are making extremely low prices in carload lots. If you are interested, send us your carpenter's bill for our estimate.

PIPE. — 10,000,000 feet of Standard Black Wrought Iron Pipe. It has seen service only during the Exposition. Sizes range from ⅜- up to 42-inch. We can furnish you pipe of any kind. Write for complete list.

GREENHOUSE FITTINGS. — Anything needed in the line, as our stock is complete. Write us your requirements. We can furnish you valves, fittings, etc.

Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

CHICAGO HOUSE WRECKING CO.
35th AND IRON STS., CHICAGO — World's Fair Grounds, St. Louis, Mo.

In writing to advertisers, mention HORTICULTURE

MASTICA



FOR Greenhouse Glazing
USE IT NOW.
Joseph Breck & Sons CORPORATION
AGENTS

We are the Manufacturers' Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston Mass.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST
28th and M Streets, WASHINGTON, D. C.,
In writing to advertisers, mention HORTICULTURE

PURE CANADA UNLEACHED

Hardwood Ashes

The best and most lasting fertilizer in the world. For the purest grade use the JOYNT brand. Write for prices and information to

JOHN JOYNT, Lucknow, Ontario, Canada
Reference — Bradstreets' Agency
In writing to advertisers, mention HORTICULTURE

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.
Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE
Illustrated monthly—Eleventh year—terms, $1. a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

East and West

Chicago, St. Louis, Detroit, Buffalo, Pittsburg, Boston, New York

East and West

Take the Wabash Through Car

Low Rates, Fast Trains

ASK FOR THE WABASH

In writing to advertisers, kindly mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

36 COLUMBUS AVE., BOSTON

ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

GREENHOUSE GLASS

We are taking orders NOW for late Spring Delivery. We DO NOT advise DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

Pecky Cypress Bench Lumber

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED.

Write for Circular "D" and Prices

The A. T. Stearns Lumber Co.

NEPONSET - - BOSTON, MASS.

In writing to advertisers kindly mention HORTICULTURE

SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied —



Send $1.25 for the tool and you will get it by first express.

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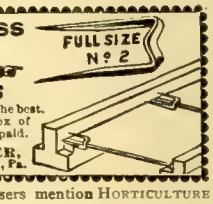
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HORTICULTURE

Vol. I APRIL 8, 1905 No. 19



Lilium Philippense, Farquhar Variety

Devoted to the
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LANDSCAPE GARDENER
and
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Published
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HORTICULTURE

VOL. I | APRIL 8, 1905 | NO. 19

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

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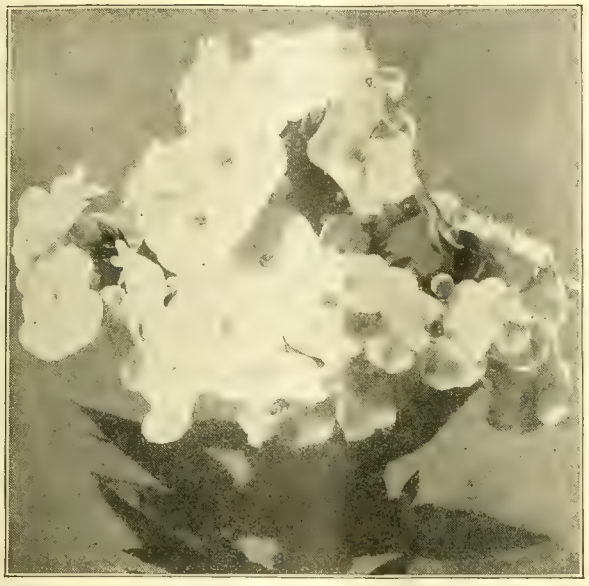
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We execute all our correspondents' orders with greatest care and at lowest rates. Trade courtesies extended.

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Allow me to fill your orders.

STRICTLY UP TO DATE

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$10.00 per 100

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—AND THAT INCLUDES THEM ALL—

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Easter Plants

Azaleas, Lilies, Ramblers, Rhododendrons, Bougainvilleas, Gardenias, etc.

Get your order in early. Price list on application

Samuel S. Pennock

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HAVE YOU ORDERED THEM YET?

Violet Pans, 6-inch, ... 25c each

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American Beauty, 6-inch to 7-inch Pots, 50c to $1.00 ea.
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" " 2nd " 1.00 "
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The Conservatory

We present herewith three views showing the plant-bedding at Lincoln Park, Chicago, and a portrait of the skilful head-gardener, Alois Frey.

The first view shows the main conservatory, as seen looking north through the parterre. The conservatories are very extensive, the range comprising several houses that do not appear in the picture, and the collection of plants is very extensive. The conservatories are open to the public from 9 A.M. to 5 P.M. daily.

In the service houses are grown all the plants for the show houses, besides the many thousands of bedding-plants required for the extensive summer bedding which is carried on here. The view of the parterre gives an idea of the character of the outside work. The large round bed shown in the foreground was filled with Abutilon Savitzii, bordered with Iresene Wallissii. The large triangular-shaped beds are of cannas, with border of Pennisetum longistylum and P. Ruppelianum. One of these beds is shown in the other illustration. The Pennisetum used in bordering it is raised from seed sown in January and later transplanted into pots until planting-out time in June.



Alois Frey, Head Gardener



The Parterre



Bed of Cannas and Pennisetum at Lincoln Park

As compared with the better known P. longistylum, P. Ruppelianum is distinguished by its longer plumes, which are purple instead of white. The effect of this grass used in the manner described is grand.

Some Greenhouse Pests

I

A knowledge of insect pests as well as fungus diseases is a matter of dollars and cents to every florist, and too much ignorance exists concerning them, ignorance that it is to the advantage of every grower to get rid of.

Injurious insects in the greenhouse may be divided into permanent and transient, the former those which always live indoors, and the latter those that drift in now and then and after staying awhile die or travel off. In general the worst resident pests are the green fly, thrips, and red spider, all of which are found in almost every greenhouse, but often escaping notice because of their small size.

GREEN FLY

The plant lice, green fly, or aphis — aphididæ — do much damage in all stages of growth by sucking the juices of leaves, stems, and flowers, distorting them and even killing them if the lice are numerous. The insects are small, .07 to .08 of an inch in length, pear-shaped, with a couple of tubes projecting backward from the abdomen. In color they are all shades of green, black, or brown, and are provided with a beak and six legs, the number all true insects have. The green lice live particularly on carnations, violets, and roses; the black on chrysanthemums. They hatch from black, shining eggs laid in bunches, in cracks, crevices, or around buds. So-called "stem-mothers," females, are produced from these, which are capable of bringing forth living young without mating. One brood follows another in rapid succession, multiplying so fast that it is soon difficult to distinguish different generations. The first few broods are wingless, but finally give way to a brood one-half of which are supplied with wings. These spread the pest. Outdoors in the fall both sexes begin to appear, which mate on the approach of cold weather and lay the eggs which survive the winter. Just when this egg-laying period occurs indoors, if it occurs at all, is not definitely known because of the confusion of generations. *Treatment.* — Man is aided in his warfare against this pest by certain Coccinellids, or lady-bugs, some flies, wasps, and a fungus disease. Spraying with kerosene emulsion, 1 part kerosene to 12 parts water; fish-oil soap, 1 pound to 6 gallons of water; infusion of tobacco, ½ pint to a pail of water, are all good sprays. Fumigation with tobacco or HCN will rid a house of them.

CUTWORMS

The larvæ or caterpillars of certain butterflies and moths are at times injurious to certain crops, particularly carnations, violets, and smilax. They are not permanent pests, but gain admittance through the soil, or the moths fly in through the ventilators and lay their eggs inside, which produce the cutworms. Several species are represented, varying in length from one to two inches and of all shades and colors. The damage is done by the biting out of the softer parts of plants, especially the tops. Violets, carnations, smilax, sweet peas, pansies, mignonette, German ivy, tomato, rhubarb, asparagus, and lettuce all suffer, and in fact hardly anything is immune to their attacks. They feed at night, hiding under the surface of the ground, or in dark places during the day. *Treatment.* — There is no excuse for the presence of these pests. Spraying the plants with some arsenical poison will fix them, or they can be picked off after dark and crushed. Fumigation does little good unless the insects are feeding, as the gas will not penetrate the ground to any depth. Poison baits made by spraying a clump of clover, grass, or plantain with paris green (one-third pound to a barrel of water), cutting and strewing around the plants, will destroy large numbers. Prevention consists in sterilizing the soil and in covering the ventilators with wire netting, to keep out the moths.

R. L. Adams.

Echoes from England

A REMARKABLE BEQUEST TO HORTICULTURE

By the will of the late Mr. John Innes, of Merton, Surrey, who died in August last year, a bequest of the munificent sum of £325,000 is made for the purpose of establishing a school of scientific horticulture. Such an event is unique in the annals of gardening in this country, and further news will be awaited with great interest. The Royal Horticultural Society want to establish a scientific school at their new gardens at Wisley, but at present are hampered for lack of funds, so that the bequest of this large sum of money towards the same end is particularly opportune.

OUR CHIEF SOCIETY (THE ROYAL HORTICULTURAL)

The total number of Fellows, Associates, and affiliated societies is now 8,360. In 1904 there were 1,383 new Fellows: deducting resignations and deaths, which number 469, the actual numerical increase is 914, and the net increase in income is £1,510.19. You may be interested to hear what a Fellow gets in return for his guinea subscription: he has free admittance to the fortnightly shows and meetings held in the new hall; tickets for all the special shows, as the great Temple show, the fruit show, etc. The Society's journal is posted to him two or three times a year, and this in itself is worth a guinea. He also has free advice respecting insect pests and disease which affect his plants, and he receives a certain number of plants every spring from the Society's garden if he cares to apply for them. So that altogether the Royal Horticultural Society gives splendid value to its members.

WINTER-FLOWERING WALLFLOWER

Wallflowers are such popular outdoor spring flowers with us that there seems every reason to believe that the new wallflower which flowers through the winter under glass will also become widely grown. It bears sweetly scented flowers that vary through some charming shades of color — when opening they are yellow, then they pass through plum, bronze, and old gold before they fade. On the same plant there are always flowers of each shade of color and the plants flower very freely. Altogether it seems to be a valuable winter flowering greenhouse plant. It is the result of hybridizing Cheiranthus mutabilis and the garden varieties of wallflower. Messrs. James Veitch and Sons, Ltd., Chelsea, have the stock of this plant.

A NEW SCENTED PELARGONIUM

Among the new plants that attracted attention at the Royal Horticultural Society's show yesterday (February 28th) was the scented leaf Pelargonium Clorinda. It has rich, rose colored heads of flower, the lower petals being flushed with scarlet. Both flowers and leaves are scented, and it is free flowering. It was raised by Dr. Bonavia and shown by Messrs. Cannell & Sons, Swanley, Kent.

HONOR FOR A GARDENER'S SON

It is not often that the son of a gardener becomes sufficiently eminent to be commissioned to paint the portrait of the reigning sovereign, yet an instance of this has just occurred. His Majesty, King Edward, is giving sittings to Mr. Harold Speed for a portrait to be placed in the new Town Hall at Belfast, Ireland. Mr. Harold Speed is the son of a gardener who was well known at Matlock in Derbyshire where he worked.

SOME GOOD NEW PLANTS

Cymbidium Sanderæ. This is a newly introduced species from the East Indies, and is quite distinct from any other cymbidium. It is a very beautiful orchid, and Messrs. Sander & Sons, St. Albans, England, introduced it. The sepals and petals are white tinged rose pink, the tip heavily marked with short crimson lines. Orchid enthusiasts are numerous over here, and this new cymbidium came in for a good deal of admiration.

Primula Kewensis. Although this cannot be called quite new, it is practically so, so far as its general culture is concerned. It is a most valuable winter greenhouse plant. The flowers are freely produced, and the plants remain in flower throughout a long time. It resulted from intercrossing Primula floribunda with P. verticillata, and it combines the good characteristics of both parents. The flowers are rich yellow and are produced in whorls at intervals on the stem.

Eupatorium petiolare. Imagine a loose growing plant some three to four feet high in a pot only 4½ inches in diameter and bearing a large number of pink-white, daisy-like flowers, and you will have a good idea of the appearance of this plant, which was given an award of merit last year and has lately been well shown.

Well-grown plants bear large quantities of blossom; even the lateral shoots bloom freely when the main shoots have finished, if the latter are stopped. Messrs. Cannell & Sons, Swanley, Kent, have exhibited this eupatorium a good deal lately.

Harry H. Thomas

London, England.

Please Appreciate

A special advantage given to advertisers in HORTICULTURE, *without charge*, is the Buyers' Directory which tabulates the advertisers in each issue of the paper under the respective heading of the goods offered. This is a convenient ready reference for buyers, and its value to advertisers is obvious, being in fact a *double* announcement without extra cost.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Congratulations to the plantsmen. What would Easter be without them?

Water; water; water. Tell customers how abundantly they must supply it to hydrangeas, azaleas, and other profuse-blooming subjects, if they want them to endure. A short life and a thirsty one is the fate of many a fine Easter plant.

In dressing plants for Easter gifts proceed cautiously. So well-finished are the specimens now provided for the great festival by the expert growers that "dressing" to hide imperfections is no longer necessary. Especially avoid gaudy artificial effects. The fantastic should have no place in such work.

It looks as though the growers might have an opportunity to exercise their best ingenuity in "holding back" their lilies and other flowering Easter stock this year. Here is where the man with that most useful adjunct — a capacious and serviceable cold-storage shed — has the advantage.

We learn with pleasure that the breach between the seniors and the faculty at Amherst Agricultural College has been closed up, and that the boys have all returned and settled down to work. Although this happy result was possible only by more or less reluctant yielding on both sides, yet the ends of justice and discipline seem to have been fully accomplished, and it is a cause for congratulation that everything has been adjusted with so much mutual satisfaction and harmonious accord assured between the faculty and the students henceforth.

Downing said that "true taste lies in the union of the beautiful and the significant." Although addressed particularly to the out-door gardener, this applies with no less force to the florist and his work. In the prevailing fashion of grouping bright-flowering plants in fancy receptacles for Easter gifts, abundant opportunity is afforded for the exercise of true taste and refined expression, and he who bears this truth in mind and adheres to this principle, in small matters as well as in large, cannot fail to gain due credit and appreciation for his handiwork.

How to secure the greatest amount of public benefit from our large public reservations is a much debated subject. Many well-meaning writers, anxious to appear as utilitarians, place the immediate physical enjoyment of the people as the foremost consideration and advocate the "opening-up" of our wild reservations by means of roads, trolley-cars, etc., so that every part will be accessible, that the people may get the benefit of fresh air and rural freedom. While not disposed to undervalue these considerations and recognizing that the common people should have something to say as to the use of what they are paying for as well as the artist and naturalist, we should deplore the wholesale transformation of the forest solitudes and untrodden dells into "breathing spots" and are convinced that "the greatest good to the greatest number" would not be secured thereby. As inaccessible wilderness such territory is a much better fresh air factory than if trodden over and denuded of much of its vegetation. In their wild state these tracts provide shelter and opportunity for birds and native flowers that would soon become extinct under the inroads of visiting throngs, and we do owe it to the place of our habitation that natural conditions are not ruthlessly and completely obliterated, that the native flora is not exterminated and that the birds and smaller animals indigenous to the country be given an opportunity to exist unmolested in their favorite haunts. Once overrun and scarred, our beautiful country can never be restored to its primitive attractiveness.

Do you like Horticulture? Then order it for your employees; tell your friends about it; or send us their names and we will mail sample copies to them. The larger our subscription list, the better paper we can afford to give you. The interests of Horticulture and its Readers are mutual.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

I am receiving HORTICULTURE regularly every Saturday, and assure you I have both use and pleasure in reading it. Accept my best wishes for the success of the enterprise. — W. F.

We have received from a subscriber to HORTICULTURE the following appreciative letter: —

HORTICULTURE PUBLISHING CO.—

The remark was made to me a short time ago, that the horticultural interests of this country had never yet shown that they could either produce or would support a high class trade paper. Your efforts to bring out the possibilities in this direction doubtless strike the highest note that has yet been reached. The demand of the local support for a large space devoted to local and personal items, would, if too largely acceded to, give the paper a provincial cast. Horticulture to be of value to any one, must be national in its scope and contain matter that will interest and appeal to readers in *all* parts of a large field.

Previous to the advent of HORTICULTURE, Boston was falling away from the high place she had occupied in this branch of activity. In the tone and spirit of the editorials, in the bringing out of writers of the standing of such men as Mr. Jackson Dawson, and in the whole general influence of the paper, HORTICULTURE is bringing to the front again the devotion, enterprise, and achievement which were either lying dormant or were being neglected. This is not only to the credit of Boston, but to the advancement of Horticultural interests in their widest import and application.

Feeling quite sure that as your motives are apprehended, they will appeal to all classes of the craft, and draw out their full support, I remain,

Yours very truly,

H.

TARRYTOWN HORTICULTURAL SOCIETY

The meeting of March the 28th was marked by a very large attendance. F. R. Pierson was awarded a certificate of merit for Baby Rambler rose and L. A. Martin received a similar award for an excellent vase of Antirrhinum majus. A very interesting and instructive essay on spraying for San Jose scale was read by L. A. Martin. Quite a lively discussion ensued, the consensus of opinion being that unless some concerted action is taken to check this pest, few fruit trees will be left alive in this section in the course of a few years.

The secretary announced several liberal donations towards the prize fund of the November show, the schedule for which is nearly completed. F. R. Pierson asked for the opinion of the members regarding the most suitable number of carnations to be staged for the cup he offers, his desire being to give the small growers a chance to compete. After the members had freely expressed their opinions, Mr. Pierson decided to give the cup for seventy-five blooms, twenty-five each of the three Lawsons; pink, white, and variegated, instead of for fifty blooms variegated Lawson as originally intended.

Next month Professor Powell will deliver a lecture on trees and roses. For this lecture the school trustees have kindly granted to the society the use of the lecture room in the high school which will allow of making the lecture open to the public.

WM. SCOTT,
Cor. Secy.

SOCIETY OF HORTICULTURISTS OF COLORADO

The annual meeting of the Society of Horticulturists of Colorado, was held at the Capitol Building March 24th, in the office of the Secretary of the State Board of Horticulture. The Society (it being only two years old) showed a satisfactory growth, for the short time it has been in existence. Some of the florists present brought and staged flowers that would have been a credit to any flower show, notable among which were the exhibits of E. E. Peterson, The Park Floral Co., The Colfax Floral Co., Ben. Boldt, and Mrs. C. R. Mauff, and, last but not least, were some vases of roses and carnations sent from Colorado Springs by Mr. Braidwood, although they suffered some by being shipped. A vase of American Beauties by Ben. Boldt about as fine as has been seen in Denver for many a day. A vase of Adonis by E. E. Peterson was very fine, also a vase of Mme. Abel Chatenay from Mrs. C. R. Mauff. Some plants of Adiantum cuneatum from Colfax Floral Co. were superb.

The meeting opened with an address from President John Satterthwaite, which was followed by a paper on Colorado soils by Prof. Longyear, who also gave illustrations from drawings and partly germinated seeds under magnifying glass. After that a paper on rose-growing under glass was read by Mr. J. Sked, foreman for the Park Floral Co., some very interesting points being brought out by Mr. Sked.

At the night session a paper by Mr. J. Berry was read, relating to outside roses, and Mr. Berry certainly did justice to the subject. Next on the program was an interesting paper by Mr. Wilmore on dahlias. On account of ill health Mr. Wilmore could not be present and his paper was read by the secretary.

The following officers were elected: President, J. A. Valentine, Denver; vice-president, W. H. Evans, Colorado Springs; second vice-president, G. Fleischer, of Pueblo; treasurer, R. Mahan, Denver; secretary, V. A. Benson, Denver.

After a vote of thanks to the entertainers of the meeting, the Society adjourned.

ILLINOIS STATE FLORIST ASSOCIATION

A new organization formed a few weeks ago and one that is full of business. They already have a bill for an appropriation before the legislature which bids fair to pass. Much credit will be due to the lobbying skill of the association's committee should the bill pass; they went at it like veteran politicians.

To those concerned I beg to advise that the association is now duly incorporated under the laws of the state; the proper papers of same now being in my possession.

We already have fifty members and solicit the application of every florist in the state of Illinois. Send same at once to H. Hasselbring, Dept. of Botany, University of Chicago, Chicago, Ill.

JAMES HARTSHORNE.

NEWS NOTES

Joseph E. Pollworth, secretary of the C. C. Pollworth Company, was married to Miss Alma G. Yahr, at Milwaukee, on April 3.

A big exhibition is planned for next fall at St. Louis. The premium list already amounts to $2,300. The show officials are Otto G. Koenig, manager, Fred. Meinhardt, superintendent; Fred. C. Weber, treasurer; Theodore Miller and E. W. Guy, assistants. Much interest is already manifested in the project.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Well, well! At last we are on the right track. Efforts are being made to establish base-ball teams to represent the two wholesale flower markets of Boston. For years have we needed some diversion from the steady grind of business. Earnest efforts will be made to pull off a series of games this summer between the two markets, and the stall holders and patrons of each establishment should encourage the spirit in every way, even though they can't tell a baseball from a hickory nut.

Here is a new method of carnation culture as practised by Mr. Oswald Ralph of Weymouth. Mr. Ralph strikes his cuttings late in August or the first of September, and when well rooted, plants them in beds with violets. When the violets are thrown out the following spring the pinks are left in and come in flower in June, continuing until the following year, when they are replaced with violets. Fine pinks during the summer months as well as the winter are the result of this cultivation. Herbert Capers is salesman for Mr. Ralph in Music Hall Market.

Thomas Cox of Dorchester is supplying his customers with some fine spirea. Mr. Cox brings his spirea clumps in the house from a cold frame about the first week in January, and puts them under a bench in a cool house. When they begin to start good root action, and the leaf stalks appear, he pots them in 8-in. pots or boxes and places them under the benches of a warmer house. When the stalks are about three or four inches tall he places them on the bench, and grows them at a temperature of 60°. Mr. Cox allows from seven to ten weeks for spirea to flower from the time it is brought in the house.

THOS. F. MATTHEW.

NEWPORT PERSONALS

Carl Jurgens, Jr., of Newport, R. I., will be married to Miss Flora Hubbard, at Washington, D. C., on April 10.

Mr. Thomas Knight, representing Julius Roehrs of Rutherford, N. J., stopped off at Newport on his way home from the Boston Exhibition.

Mr. James J. Sullivan, head-gardener for Mrs. Ogden Goelet, has just been informed that Mrs. Goelet will not occupy her Newport residence this summer. This is a matter of much regret as this is one of the show places of Newport, and the absence of Mrs. Goelet will be considerably felt.

The Executive Committee of the Newport Horticultural Society have completed the schedules of premiums for the two exhibitions to be given by the Society. Both these exhibitions are to be held in the Casino. Several novel features are to be introduced this year, among these will be a class for planting at the outside entrance to a residence. In this class Miss Alice Ketellas offers as a first prize a silver cup, and the Society a second prize of $20.00. Much interest is shown in this class, many wondering what exhibitors will use in planting, because the prize is to be given on the condition that no evergreens be used. D. M.

BUFFALO PERSONALS

Buffalo Florist Club mourns the loss of one of its members, Donald Newlands, after a prolonged illness.

Inspired for political fame, our friendly Andy Adams, is looking for the nomination of supervisor in his district "here's hoping."

Two Fine Plants

Making a trip to several of the conservatories in Brookline a few days ago, we called at the A W. Blake estate and on going through the greenhouses we were very much interested in two specimen plants of Cypripedium, one Cypripedium Harrissianum Dauthierii carrying fifteen flowers, the other plant Cyp. nitens carrying seventeen flowers. Both these valuable varieties were in the pink of condition, and being armed with our kodak, and obtaining permission, we were enabled to take a photograph, as well as to take various notes of culture as practised by Mr. Wild, the late gardener, and which we have pleasure in reproducing.Cypripedium nitens (C. villosum × C. insigne Maulei). The characteristics of the pollen parent preponderate, but the flower has the lustrous surface of C. villosum which suggested the name nitens (shining). This is a valuable midwinter flower ing plant following Cyp. insigne, and it is fully as easy of culture. A temperature of 55 degrees night seems to suit it. The plant was grown in half peat and fibrous loam and received abundance of feeding during the growing season

Cypripedium Harrissianum Dauthierii. (C. villosum × C. barbatum= Harrissianum Dauthierii). Sub-variety distinguished by color only. A very free flowering variety. The plant illustrated was carrying fifteen flowers grown in an 8-inch pot, rather later in flowering than nitens grown under same conditions, helping to prolong the season of the small collection of plants. Well adapted for any one wishing to grow orchids at small outlay



Acacia pubescens

Both varieties mentioned above could be grown to advantage in a temperature of 5 degrees lower than the majority of Cypripediums, a point worthy of commendation to amateurs.

Passing from the palm and orchid house to the carnation house we found a splendid specimen of Acacia pubescens grown in a tub in full flower. It was a sight beautiful to behold. No photograph would do justice to this the most graceful and beautiful of all the acacias, and it is only to be regretted it is not more generally grown, not only in the private collections, but also in commercial establishment where specimen plants are in demand. At present it is seldom met with in private collections in this country It is easy of cultivation, free flowering, very fragrant and one of the earleist of its species to flower while its habit of growth aud gracefulness are sufficient to recommend it. A few remarks Mr. Wild's mode of culture will, I am sure, prove interesting to our readers.



Cypripedium Harrissianum Dauthierii

We repot or rather retub this plant every second year about the first week in June The old soil is well washed out with the hose which does not damage the roots. The plant is then planted outside in a partially shaded position and kept well syringed and watered. It is then lifted again during the first week in September and retubbed, using as a compost good fibrous loam and leaf mould, some bone meal, and ufficient sand to keep the compost open. It is wintered in a temperature of 45 degrees night, with plenty of ventilation during the day, and the plant is pruned or cut back after flowering.

Acacia pubescens is a somewhat difficult plant to propagate, hence it is always scarce. It can be propagated from root cuttings or cuttings from the plant, being careful to select the half-ripened wood just before growth commences. D. Lumsden.

STREET AND WAYSIDE PLANTING

Read before the North Shore Horticultural Society by J. A. Pettigrew, March 17, 1905

Recognition of the value of trees as an adornment to streets, in this country, dates from an early period. In Mr. Albert Matthews' intensely interesting address on the history of the trees of Boston Common, delivered last year before the Boston Common Society, we find that, as early as March 3, 1655, interest was manifested in the preservation of trees. At a Town Meeting held that day, an order was passed, "That whosoever shall cut, hack, or hew any of the trees planted in the Neck, shall pay for every tree so spoyled twenty shillings, the one-half to the informer, the other to the town."

On May 12, 1701, a by-law was passed, that "no person shall lop, peel, girdle, or deface any of the trees now standing or that shall hereafter be planted or set by order of the Selectmen, or by their approbation, upon any part of, or place in, the common ground of the town, under penalty for every such offense."

Although not so stated, it is presumable that these were public trees; but, whether or not, the order reveals to us the fact that the early pioneers of Boston recognized the value of trees as an adornment to the town, and the necessity of their preservation.

In one respect we have not progressed much since that day, two hundred and forty-seven years ago, twenty-five years after the first settlement was made. We have with us to-day, as the early founders of Boston had, in 1655, those who "cut, hack, or otherwise 'spoyle'" trees; and it is to be feared that their numbers have increased since the days when the Puritans made the order. We have also, in goodly numbers, the small boy with his ever-ready pocket-knife, to whom the smooth stem of a tree is a sore temptation — a temptation as irresistible as was the cherry-tree to George Washington in his boyhood days.

Then, too, the trees on the curb of every street bear ghastly evidence of the gnawing of generations of unhitched horses; indeed, it is not an uncommon thing to find hitching-rings driven into fine old trees.

In addition to the despoilers of trees of "ye olden time," we have the modern gas companies, and the City sewerage and water departments, whose employees, seldom giving thought to the destruction they are working, cut off more roots from our street trees than would be necessary were the work done under intelligent direction.

To counterbalance, as it were, the

lopping off of the roots under the surface, we have the cutting and slashing of the branches by employees of the various corporations whose business requires the use of overhead wires.

When one sees these battle-scarred veterans of the streets enduring ill-use, year after year, and sometimes decade after decade, yet still putting forth leaves in the spring, in a struggle for existence, one cannot but realize that nature has endowed many of our trees with remarkable endurance and great adaptability for planting in our streets.

Trees may be ranked among the noblest products of nature, and this adaptability for beautifying and shading streets is a great boon to city dwellers, and one that is not appreciated to the full; else, why should such mutilation be perpetrated? or why should it be permitted by those in authority, whose duty it is to protect the interests of the public? Ignorance of trees and their requirements undoubtedly has much to do with it. Carelessness, thoughtlessness, and the fierce fight for gain are among the causes which despoil our trees; and when we consider that, in addition to this danger from the hand of man, there is still to be added the ravages of insects and lower organisms — the wonder is that so many beautiful trees are to be found in our streets.

In addition to shading our streets and waysides, trees lend a softening effect to the hard, and too often inharmonious lines of closely built-up streets, and thus appeal to the artistic sense, both in summer and in winter.

Trees, too, through their foliage, evaporate a great deal of water, which they draw from the ground. Thus, while cooling the atmosphere, they at the same time sweeten the ground by draining off stagnant water. They also consume noxious gases and send out those that are life-giving.

In support of the sanitary value of trees in the public streets, may be cited the resolution passed by the New York County Medical Society: —

"*Resolved*, that one of the most effective means for mitigating the intense heat of the summer months and diminishing the death rate among children is the cultivating of an adequate number of trees in the streets."

This may be further illustrated by the fact that the bill which was presented to the New York legislature in 1899, to put the care of street trees in charge of the Park Commissioners, was drawn by a physician, a member of the State Board of Health, and was introduced merely as a sanitary measure.

Mr. Milo R. Maltbie, Assistant Secretary of the New York Art Commission, as agent of the Commission and under the auspices of the State Department of the United States, went to Europe, two years ago, to investigate the progress of civic improvement in the cities of northern Europe. In his report he says: "That trees and green grass-plots should be used on all streets and avenues wherever possible is so apparent that it hardly needs mention. Nothing adds so much to the beauty of a street, or so tempers the heat and glare of hot summer days, as lines of wide-spreading trees and plots of green grass, with an adequate supply of benches for those who wish to rest and enjoy the changing scenes.

"The ample provisions made by many European cities have turned many boulevards into continuous park systems."

It is to be regretted that in laying out new streets, the tendency of the day is toward the narrowing of the sidewalks, and the omission of any provision for a tree-planting space. Boston with its suburbs is suffering from this evil, which portends badly for the beauty of its streets in the future; the absence of provision for planting will quickly relegate such streets to squalor and obscurity.

This tendency of the present day is in striking contrast to the early public records, which demonstrate the fact that the Puritan Fathers, in the midst of their strenuous life, had in mind the beautifying of their surroundings by the planting of trees; and that they ordered, through their selectmen, that trees should be planted by the town. Quoting again from Mr. Matthews' address: "On February 11, 1711 or 1712, it was voted by the selectmen that 'a convenient number of trees be provided to plant on the sides of each burying-place where it shall be thought proper.'"

That the early settlers of New England transmitted their love for trees to subsequent generations, the magnificent elms to be found in our New England towns, give evidence. The New England elms are noted, far and wide; the charm they add to the wayside is beyond price. Is it not important, then, that every effort should be made to encourage the growth of and to protect, all wayside trees?

Washington's trees, as an attraction to the city, divide honors with its best architectural features; not because of the individual beauty of the trees as fine specimens, but because of their value as a whole in the adornment of city. This results from an intelligent control of the planting and care of the trees, the work having been placed in the hands of competent commissioners, among whom have been numbered John Saul, William Saunders, and William R. Smith the only survivor. The results accomplished in Washington are just as attainable in any other community. All that is necessary is wise legislation and the education of the people to the importance of the subject.

At the present time, great interest is being manifested, throughout the country, in the preservation of objects of natural beauty; in the regulation of the bill-board nuisance, which everywhere disfigures the landsacpe; and in the general improvement of towns and cities along æsthetic lines. This betokens a general public awakening to the importance of civic beauty.

Societies having these objects in view are being organized in every direction. We are glad to note that a large share of the attention of these societies is devoted to the planting and preservation of trees. These influences, properly directed, cannot but have a good effect in the furthering of the work of making the city (and the country also) beautiful.

Laws have been enacted in Massachusetts making it obligatory on the part of towns to elect tree wardens, who shall have the care and control of all public trees, except those already in charge of park commissioners; while, elsewhere, throughout the country, laws and ordinances have been framed, looking to the care and planting of trees in the public streets and highways. The Massachusetts statute is mandatory with regard to the appointment of a warden and the scope of his power. The provision for furnishing funds, for planting and care, is permissive, which will largely induce negative results. The idea, however, is sound, and when certain of its defects have been remedied, and the knowledge of tree culture increased, its influence on civic beauty will be very powerful.

But the simple passage of a tree-warden law does not alone insure that there will be protection; that trees suitable in kind will be planted; or that their requirements shall be furnished to them. Let it be a popular service to see that *competent* wardens are elected, and that their duties are faithfully performed. Laws and ordinances are of little avail unless supported, in their execution, by the hearty coöperation of the public. The requirements of the trees are simple: good soil, and protection from the vandal hand, is all that is necessary for favorable results. But money must be provided to pay for these, as well as to meet the expense of pruning and fertilizing; also to combat the ravages of insects, which infest trees in towns and cities — a consequence of the disturbance of nature's balance, resulting from the banishment or the destruction of insect-eating birds.

Tree-planting and improvement associations have done much to advance the cause of tree-planting in public streets. The Brooklyn Tree-Planting Association recommends the coöperative plan. Under this plan competent foresters may be consulted, or engaged; and trees may be bought, and the ground prepared for planting more cheaply than can be done by individual effort. Associations of this character, however, are difficult to organize. Not everyone possesses enthusiasm enough to enter into the work of planting young trees; the result seems too distant, and planting for posterity appears, to many persons, too great a self-sacrifice.

In the absence of competent civic control of tree-planting, the coöperative plan, or any other plan looking to the planting of trees in the streets, should be adopted by every citizen who has the interests of his city at heart. No excuse can be offered for the absence of trees on every suitable street, and on every roadside. The matter is easily within the power of each municipality to correct.

[Continued next week.]

CONIFER SEED CROPS IN EUROPE

We clip the following from the February report of Conrad Appel of Darmstadt; —

Pinus sylvestris. — The crop is a very short one in those localities which have produced some seed this year, and the cones fetch very high prices, although they do not contain as much seed as in previous years. The quality, however, is very good. Picea excelsa yielded more seed than the aforementioned species, yet not as much as had been expected, for the quality varies. Larix europaea. — Tryol, the principal country for the production of this seed, has yielded a small crop, but our home crop has, after many years, once again turned out very satisfactory; thus the home-grown product fully equals the seed of Tyrol in value. Abies pectinata produced a limited quantity of cones which are partly rather poor in quality. Pinus strobus. — A very limited quantity of the home-grown seeds appeared on the market at very high prices. Pinus austriaca yielded a very small crop, causing prices to rise high; the quality is a good one, however. Pinus maritima, montana, and P. laricio grew sufficient seed, while the crop of Pinus cembra is small.

EASTER PLANT MARKET REPORTS

Easter flowering plants in different sizes are quoted by growers as follows:

BOSTON.—Azaleas 5 to 8-in., $.75 to $2.50; 9 to 10-in., $3.00 to $5.00; hydrangeas 8-in., $1.25 to $1.50; rhododendrons $2.00 to $4.00; genistas 5 to 8-in., $.75 to $2.00; acacias 8 to 10-in., $2.50 to $5.00; astilbes 50c.; Crimson Ramblers $1.00 to $4.00; pot roses $.75 to $2.00; bulbs in pans, 50c.; lilies 12c. per bud and flower.

BUFFALO. — Azaleas 5 to 8-in., $1.00 to $3.00; hydrangeas 4 to 8-in., $.50 to $2.50; bougainvilleas 5 to 7-in., $2.00 to $3.00; lilacs 5 to 8-in., $2.00 to $5.00; rhododendrons 5 to 8-in., $1.25 to $4.00; daisies 6 to 8-in., $1.00 to $2.50; genistas 4 to 7-in., $.25 to $1.00; acacias 6 to 8-in., $1.50 to $3.00; astilbes 5 to 6-in., $.25 to $.50; Crimson Ramblers 5 to 8-in., $.75 to $3.00; pot roses 5 to 6-in., $.50 to $.75; tulips in pans, 8 to 10-in., $.50 to $1.00; lily of valley 6 to 8-in., $.75 to $1.00; hyacinths 6 to 10-in., $.75 to $2.00; daffodils 6 to 10-in., $.50 to $1.50; lilies, 15c. per flower.

CHICAGO. — Azaleas 12 to 14-in., $.75 to $1.00; 20-in., $3.00 to $4.00; hydrangeas 6-in., $1.00 to $2.00; 8-in., $3.00 to $4.00; lilacs $1.00 to $2.00; rhododendrons $1.50 to $5.00; daisies $.75 to $2.00; genistas $.35 to $1.00; acacias $1.00 to $2.50; astilbes $.50 to $1.00; Crimson Ramblers $1.00 to $2.50; pot roses 5-in., 25c.

PHILADELPHIA. — Azaleas 6-in., $1.00; 7-in., $1.50; 8-in., $2.00; 10-in., $5.00; 12-in., $15.00; hydrangeas, 8-in., $1.50; 10-in., $3.00 12-in., $5.00; 16-in., $20.00; bougainvilleas, 10-in., $10.00; 16-in., $25.00; lilies 12c. per bud and flower; rhododendrons 7-in., $1.50; 8-in., $2.00; 10-in., $3.50; genistas, 6-in., $.75; 7-in., $1.00; 10-in., $5.00; astilbes 7-in., $.50; Crimson Ramblers 7-in., $1.00 to $2.00.

RUTHERFORD. — Azaleas 12 to 14-in., $1.00; 24-in., $6.00; hydrangeas $.75 to $2.50; lilacs $1.00 to $2.50; rhododendrons $1.00 to $8.00; daisies 24 to 30-in., $2.00 to $3.00; Crimson Ramblers $1.00 to $15.00; tulips in pans, $1.00 to $2.00; lily of the valley, 12-in $1.00 to $2.00; hyacinths, $1.00 to $2.00; lilies, 10 to 12c. per flower.

EASTER STOCK IN CHICAGO

The Geo. Wittbold Co. show a small Easter stock as compared with the immense lots grown heretofore. This enterprising firm has opened more retail stores, and the bulk of their crop is sold direct to the retail customer. Azaleas will be their main stay, and ericas, wisteria, Dutch hyacinths, and tulips will be found here in abundance.

W. H. Palinsky will have a good supply of Baby Ramblers, rhododendrons, hydrangeas and spiraeas, with no lack of bulbous stock.

Peter Sroczynski makes a specialty of hyacinths and tulips in pans and pots, and shows superior daffodils. His lilies and American Beauties in pots are well grown.

Frank Oechlein is a grower on whom many of the smart western retailers count every season. His Clothilde Soupert roses, in five-inch pots, lilies, and Deutzia lemonii are superb.

Sam Pearce is far-famed for his lilies. No scarcity of Easter stock here.

At J. F. Kidwell & Bros. spiraea is a great favorite, and they will have some fine plants. They are also well supplied with bulbous stock in single pots and pans.

Vaughan & Sperry show the popular violet plants in pans, as well as Crimson Ramblers and American Beauties in pots.

E. F. Winterson Co. will handle an extra good grade of lilies grown by a specialist.

L. Juergens, besides his enormous Easter crop of lily of the valley, will have an abundance of tulips and daffodils

Stollery Bros.' special Easter tulip will be in full crop. A novelty with this progressive firm is an egg-shaped pot sown with grass seed, which makes an appropriate Easter oddity.

AMONG THE GROWERS

There comes a time in every one's life when the tired mind wearied with hurly burly of modern business and commonplace surroundings, steals away from the tasks in hand, and refreshes itself with sweet memory pictures. As HORTICULTURE's representative I started out, a pleasant trip indeed, on a visit to some of New York's plant growers. It is no ordinary vacation trip that one makes when he wends his way into the vast establishment of Julius Roehrs, with its nursery blocks of fancy conifers and bays, and greenhouses divided in large ranges for orchids, palms, and stove plants. At the present the most space is given over to Easter stock. The genial proprietors, Julius Roehr's Sr., and Jr., while orders piled high on the office desk, yet extended to HORTICULTURE'S representative a royal welcome and escort around the interesting place.

There are Easter lilies thousands in number, just right in height for pot plants with well set heads; a magnificent stock of hydrangeas fills two houses. Of azaleas they are there by thousands in all sizes and shapes, of standards and pyramids. It is here the smart buyers look for well-grown ericas and their block of E. Cavendishii has an exclusive tone. That fine rhododendron Prince Camille de Rohan is also seen in remarkable profusion of bloom. The large store-house was filled to overflowing with orders for immediate delivery, bulbous stock, fancy double tulips, hyacinths, lilac, and ericas, some fine mixed plants arrangements of camellias and palms and ferns were seen. Crimson Ramblers and H. P. roses were very fine.

The surprises that attend one's visit to Bobink and Atkin's Nursery are many, here blocks upon blocks of conifers, rows of shrubbery run in all directions, and vast new plantings of conifers, lend an interest to landscape gardeners. At every turn some group or collection of exclusive stocks, tempts the epicurian of our profession. In the cool store-sheds were thousands upon thousands of fine two and three year old rose-stock in dormant condition, standards, ramblers, sweet briers, etc. An interesting collection of hardy perennials in large assortment is found here. In the greenhouses a fine batch of the Transvaal Daisy (Gebera Jamesoni) was in full bloom. Mr. Atkins says it has kept up in full flower all winter.

H. C. Steinhoff is far-famed for his ramblers and H. P. roses. Three thousand Magna Charta are being grown for Easter, such stock as fills a plant-lover with delight. The Crimson Rambler is seen here in various trained forms. There are crosses six feet high that seem to me the ideal Easter plant where a fine show is wanted; some beautiful plants are trained in basket shape, others globe shaped, pyramids and fans. Mr. Fred Steinhoff says all their rose stock is grown at their own nursery. One house, 56 × 350 was devoted to Magna Charta. Among the rhododendrons was seen Mad. Wagner, one of their favorites, color light rosy lilac; buds are a beautiful dark red before opening, thus making a striking color combination.

One of the most attractive places I visited was J. M. Keller's. Here the numerous houses were filled with ramblers, lilies, bougainvilleas, genistas, etc. A fine batch of that grand white marguerite Coronation, plants 3 feet high by 8 to 10 feet in circumference; lilies grown in 6-in. pots, and averaging sixteen flowers to the pot; boronia elatior grown as nowhere else; hundreds of Crimson Ramblers, ericas, snow balls, wisterias, dwarf azaleas, and rhododendrons are only a few of the specialties grown for Easter.

Anton Schultheis' immense establishment is filled to repletion with thousands of fancy plants. Two houses are devoted to hydrangea rosea, Otaksa and azurea; four houses given over to magnificent trained specimen of Crimson Ramblers in quaint and interesting shapes. Baby Rambler is also a big item here, the variety being grafted on manetti stock. Of yellow marguerite there is an entire house full. Heather is the great specialty here, and the list of varieties grown is very extensive. The new German wallflower is here, covered with a mass of velvety crimson flowers, its delightful fragrance filling the air. The flowers are of enormous size, coming early enough to be used as a Christmas plant. One entire range is devoted to azaleas, genistas, boronias, lilacs, and lilies, H. P. roses and rhododendrons, Dorothy Perkins, Farquhar, and Philadelphia rambler roses complete the list.

At L. Dupuy's place an army of smart retailers make annual pilgrimages. The chief attraction here is the ericas, for which Mr. Dupuy is far-famed. Genista are a mass of gold. Deutzia Lemoinei is also a favorite here. Crassula coccinea is the novelty for this year. It is a plant of much substance, will stand hot weather; flower resembles erica, erect, pink. Mr Dupuy thinks this will be a leader in a few years. Hydrangea Thos. Hagg, also H. rosea Baby Rambler roses, white daisies, the new Countess Chambora (the fern-leaved daisy) are all seen here in profusion.

At John Scott's lilies are the leader. The fern Scottii were never better than now; thousands upon thousands are grown here and among this vast stock not one frond was seen that reverts to the old type.

Vacation days like these are over all too soon but not so with their memories.

FRED LAUTENSCHLAGER.

FLORISTS' CLUB OF PHILADELPHIA

The coal question was scheduled for the meeting held April 4th, but on account of the defection of Chas. D. Ball the discussion was deferred until some future date.

Henry Eicholz of Waynesboro, requested the club to enquire into the authenticity of the Dorothy Faust chrysanthemum, presumed to be the same as Mrs. Robert McArthur, and offered to send twenty-five plants for testing, to a disinterested party, to be grown alongside Dorothy Faust. In the discussion which followed, one point worthy of note was brought out by Fred Ehret, who said that the Dorothy Faust, as he knew it, was a good shipper and never dropped its petals, whereas the McArthur, as far as was known, was a poor shipper and very apt to drop its petals.

William P. Craig, who is sending out Dorothy Faust, said he was perfectly willing to have the two varieties tested, side by side, as he was quite sure they were distinct. Edwin Lonsdale, the superintendent at Girard College, was suggested as a good authority to make the test, and the members acquiesced in this idea.

John Kuhn showed a very floriferous form of the semperflorens Begonia, almost equal to the Lorraine type, a pure white, and a very promising thing.

W. R. Huttenlock was elected to membership, and John Thatcher, Joseph T. A. Hagen, and Charles Brechemin were proposed for election at next meeting.

Random Notes Abroad

In the months of February and March of last year, in the cities of Hanover and Bremen, very nice florists' window decorations were to be seen. Lilacs were in plenty and of fine quality, indicating that the same is in much request by the flower consuming public there, and the forcing of such plants well understood by those who produced them. Great quantities of acacias in the cut state were also displayed in most florists' of any note, Acacia dealbata leading in quantity, other varieties supplementing in lesser quantities. Those showy, fluffy, yellow flowers evidently are very popular, otherwise the profusion displayed could not be accounted for. Heaths and epacris in variety were well represented and splendidly grown. Cut carnation flowers, however, were short in quantity and inferior in quality to our products, the varieties in many cases exceedingly coarse, ragged in form, and without character; and as for color, some of them were positively ugly, ranging from a nameless smoky color to a streaky magenta shade. Their inferiority in weakness as well as length of stem to our get, is easily explained, as doubtless it can largely be attributed to their less sunny skies, and is therefore in a measure excusable. The streaky colored or rather the non-colored varieties alluded to are neither to be explained nor excused, it appears to me.

Roses were slimly represented in variety and quantity and, like the carnations, deficient in quality, Perle des Jardins being the only exception. This variety was to be seen in quite large quantities and very passable in quality, and a welcome sight it was, reminding me of old times in Yankee-land, where at one time it held the premier place in its color as a winter-flowering rose — now, alas, practically relegated to the backwoods of oblivion in the latter country as a winter-flowering subject. The buds of this rose were of good size and of exceptionally fine color, the stems being somewhat short but sturdy, showing a coppery color that seemed to indicate that they were cut from the open, as I presume they were — from the south of Italy or France I suspect.

I desired to settle this question beyond a doubt and often loitered around the windows for a few minutes, patching up in mind the necessary inquiry in the vernacular of the land I was sojourning in. But not succeeding to my satisfaction, and fearing a miserable failure and a possible embarrassment from which I could not easily extricate myself, I gave it up in disgust. There were other things on which I desired to get information even more particularly (but failed for the same reasons) and none more so than the splendidly grown ranunculuses and anemones displayed in great quantities and variety. They were, indeed, the only things I saw that I could say the florists on the other side were ahead of us in. The display of those flowers, seen at times, was really brilliant. The flowers were quite large and of a stout, sturdy character, embracing numerous self-colors, as well as combinations of shades; doubles and singles were in evidence, the former being somewhat more pleasing if not more brilliant. I suspect that they also were from the open and came from summer climes; at any rate, I mentally noted at the time that they were worthy of more extensive trials in the United States as winter or early spring florists' flowers. As far as I have been enabled to observe hitherto, this has not been accorded them, either for inside purposes or outside display in the flower garden. For the latter purpose in our northern climes, it is necessary to keep them out of the ground until late spring or early summer, until the chilly effects of winter frosts have passed away.

My experience has taught me that anemones, when grown for winter use indoors, must be kept close to the glass, or in as close a position as may be had. They require also a cool temperature, — 45 degrees or less will suit them. They detest close and muggy surroundings, and in such are extremely susceptible to green-fly, growing tall and straggly, tumbling in a disorderly manner, every-which-way, over the receptacles that they may be growing in. On the other hand, within the environment of a cool, bright, and airy house, they make a sturdy and compact growth, and are not nearly so liable to be infested by green-fly.

I have in mind a particularly long shelf, in as long a house, suspended two or three feet from the ridgepole, that would in my opinion be the ideal place in which to grow these splendid subjects. I was disposed to keep this idea and ideal shelf to myself in case I might go into business yet, and thereby make a hit, but I feel more magnanimously inclined now towards my fellow-craftsmen and strugglers for honest cash! Levity on the part of your readers in regard to this "make a hit" proposition of mine is out of order. I fancy that I hear them snickering at it as being a mere joke — not a bit of it — the feeling is quite sincere, and the shelf referred to is in Mr. William Nicholson's long houses in Framingham, where he grows freesias successfully. There are many such long houses and many have such shelves that would do equally well as the Framingham houses.

Returning to other things that favorably or otherwise struck me in the fatherland, I would mention the exaggerated extent to which flowering plants were caricatured and swaddled in ribbons. Some forced lilac plants were so excessively swaddled that my first impression was that they were so protected from a possible attack of pneumonia. Other plants underwent the same fate, their whole individuality being thus taken away, and what was intended to be a plant became a bundle of ribbons. The matching of the ribbons with the complexion of the respective plants was all right, and in good taste. It's the lavish manner in which it was used that I find fault with.

I admit that an appropriate piece of coloring is not at all out of the way as an additional adornment of a plant, provided that it is kept artistically within bounds. Thus done it will appeal to some tastes, and doubtless impart an additional attraction that might stimulate a sale. Other than this the practice is, in my humble opinion, not a good one, and not to be encouraged. The receptacles in which plants in florists' windows or gentlemen's homes are kept may admit of more elaboration, but it's within the bounds of possibility that those may be overdone to the disadvantage of their occupants.

K. Finlayson.

WANTS

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Just at hand in superb condition. WRITE FOR PRICES.
We also recommend our large and fine stock of
ESTABLISHED ORCHIDS
LAGER & HURRELL
ORCHID GROWERS & IMPORTERS
Send for Catalogue SUMMIT, N. J.

New Creations in Dahlias

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue, mailed free upon request.

L. K. PEACOCK, INC. = = Atco, New Jersey
In writing to advertisers, kindly mention HORTICULTURE

ENGLISH-GROWN ROSES

Fall 1905 delivery: Hybrid Perpetuals and Teas, Climbers, Ramblers, etc, Manetti Stocks, Hardy RHODODENDRONS and a full line of ORNAMENTAL NURSERY STOCKS. Ask for our trade list, address our American agents:

AUGUST RÖLKER & SONS, 31 Barclay St., New York, or P. O. Box 752
W. FROMOW & SONS, Bagshot, England

MONEY BY "TELEGRAPH"
ORDER NOW
THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. **Will Sell at Sight** off your bench for $3.00 per doz. and give tone to your establishment. Extra strong 2½ in. plants, $15.00 per 100. On sale by the leading houses and

Thos. DeVoy & Son, Poughkeepsie, N. Y.
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Orchids

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

Bays, Palms, Orchids

Send for catalogue of
Florists' Decorative Plants
JULIUS ROEHRS CO.
RUTHERFORD, N. J.

California Privet Cheap

100,000 well-grown plants, 3 to 4 ft., selected, $4.00 per 100; $25.00 per 1000. 2½ to 3½ ft., 7 or more branches, $2.50 per 100; $17.50 per 1000. 20 to 30 in., 5 or more branches, $2.00 per 100; $13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, $1.50 per 100; $7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.
CHAS. BLACK, - HIGHTSTOWN, N. J.

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CALIFORNIA PRIVET 1, 2 and 3 YEARS
Also Cuttings. Any reasonable offer will be accepted on lots of 5,000 to carloads.
RIVER VIEW NURSERIES
J. H. O'HAGAN, Little Silver, N. J.
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The PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSOM ST., PHILADELPHIA

Choice Beauties, Brides and Maids. Fancy Carnations.

Plants for Easter

Write for List and Prices

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

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In writing to advertisers, kindly mention HORTICULTURE

CUT BLOOMS OF

KILLARNEY

The Leading Novelty among Roses at present

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers

BOSTON'S BEST

....All Varieties....

SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

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FERNS

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of FLORISTS' SUPPLIES In the country

H.M.Robinson & Co.

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In writing to advertisers, mention HORTICULTURE

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WHOLESALE FLORIST — 1432 So. Penn. Sq., PHILA.

FANCY CARNATIONS

Sweet Peas and Pansies

In writing to advertisers, mention HORTICULTURE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO April 5	ST. LOUIS April 5	PHILA. April 5	BOSTON April 6
ROSES				
Am. Beauty, Fan. & Sp.	32.00 to 42.00	20.00 to 25.00	30.00 to 35.00	12.00 to 25.00
" Extra	25.00 to 30.00	12.00 to 15.00	20.00 to 25.00	8.00 to 12.00
" No. 1	18.00 to 20.00	8.00 to 10.00	15.00 to 20.00	4.00 to 6.00
" Lower grades	4.00 to 10.00	4.00 to 6.00	6.00 to 12.50	2.00 to 3.00
Bride & Maid — Fan. & Sp.	6.00 to 8.00	..... to	8.00 to 10.00	4.00 to 60.00
" " Extra	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00	3.00 to 4.00
" " No. 1	3.00 to 4.00	3.00 to 4.00	4.00 to 6.00	1.00 to 2.00
" " Lower gr.	1.00 to 2.00	..... to	1.50 to 4.00	..... to .....
Liberty, Fancy & Special	8.00 to 10.00	..... to	20.00 to 25.00	8.00 to 12.00
" extra	6.00 to 8.00	5.00 to 6.00	15.00 to 20.00	4.00 to 8.00
" No. 1	4.00 to 5.00	..... to	10.00 to 12.50	3.00 to 4.00
" Lower grades	2.00 to 3.00	3.00 to 4.00	6.00 to 8.00	1.00 to 2.00
Golden Gate Best	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	..... to 6.00
Ivory Medium	4.00 to 5.00	4.00 to 5.00	4.00 to 6.00	..... to 4.00
Chatenay Culls	1.00 to 3.00	..... to 3.00	1.00 to 3.00	..... to 2.00
CARNATIONS				
Fancy Class	2.00 to 3.00	..... to 3.00	3.00 to 4.00	1.00 to 2.00
General Class	1.00 to 2.00	..... to 2.00	1.50 to 3.00	.75 to 1.50
Lower Grades	.75 to 1.00	1.00 to 1.50	1.00 to 2.00	..... to .50
VIOLETS				
Special	.50 to .75	..... to	60 to .75	.35 to .50
General	.25 to .50	..... to	.40 to .50	.25 to .35
Single	.35 to .60	..... to	..... to	.20 to .25
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	50.00 to 60.00	50.00 to 60.00
Cypripediums	12.50 to 18.00	..... to	..... to 15.00	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	6.00 to 10.00	10.00 to 12.50	5.00 to 8.00
Lily of the Valley	2.00 to 3.00	..... to 3.00	2.00 to 4.00	2.00 to 4.00
Roman Hyacinths	2.00 to 3.00	2.00 to 3.00	1.00 to 3.00	1.00 to 2.00
Paper White Narcissus	..... to	2.00 to 3.00	..... to	1.50 to 2.00
Daffodils	2.00 to 4.00	.50 to 3.00	.50 to 3.00	1.00 to 2.00
Tulips	1.50 to 4.00	2.00 to 3.00	..... to	1.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8.00
Freesia	..... to	..... to	1.00 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Mignonette	4.00 to 10.00	..... to	3.00 to 4.00	1.00 to 2.00
Sweet Peas	.50 to .75	.25 to .40	.50 to 1.00	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	..... to 1.00	..... to .75	.75 to 1.50
" Croweanum	..... to	..... to	1.25 to 1.50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 16.00	12.50 to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	25.00 to 50.00	..... to	35.00 to 50.00	..... to 50.00
" " bunches	25.00 to 35.00	..... to	35.00 to 60.00	35.00 to 50.00
" Sprengeri "	25.00 to 30.00	..... to	35.00 to 50.00	35.00 to 50.00
Gardenias	16.00 to 25.00	..... to	10.00 to 12.50	..... to .....
Lilac per bunch	.75 to 1.00	.50 to .60	.50 to 1.00	..... to ..

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

HIGH GRADE
Southern Wild Smilax
(From a case to a carload)
At a moment's notice. Write, Wire or 'Phone orders to
Prices Right. E. A. BEAVEN, Evergreen, Ala.

J. A. BUDLONG
37-39 Randolph Street, CHICAGO
Roses and Carnations A Specialty..... WHOLESALE GROWER of **CUT FLOWERS**
In writing to advertisers, kindly mention HORTICULTURE.

WEILAND & RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

CUT-FLOWER MARKET REPORTS

BOSTON Weather conditions are very bad and effect the market seriously. Stock is very fine; but supply is far greater than demand. With the coming of Easter, prices and conditions are expected to improve.

BUFFALO A slight improvement in business has been noted the past week. Flowers of all kinds could be obtained at reasonable figures, and everything except lilies and Southern daffodils was fairly cleaned up. Fine Beauties are coming in but low prices rule. Violets move slow at $2 to $4.00 per thousand. The prospect for good Easter business looks bright.

CHICAGO The spring cut American Beauties is now on in full crop, and when large quantities are taken can be bought at less than quoted rates. Bride and Bridesmaid are equal to any demand. Carnations still drag, but are showing effects of spring sunshine. Calla lilies are slow stock. Easter lilies of good quality are not over abundant. Lily of the valley and violets are above the demand. In bulbous stock yellow is especially slow.

CINCINNATI The hot weather of the past week has forced into the market more flowers than can be disposed of readily. This is felt especially by the Easter stock of roses and carnations, causing them to come in so far ahead of time that a scarcity at Easter must be the result. Bulbous stock also comes in heavily, the growers finding it impossible to hold it back.

LOUISVILLE The warm weather of the past week gave a new impetus to business, and stock of all classes sold well. Roses and carnations were in good demand, and the supply has been fully adequate. Bulbous stock of good quality sold satisfactorily.

NEW YORK Roses of all kinds are plentiful. Carnations are slow, but it is anticipated that as Easter draws near they will be in demand. Violets are getting smaller, and it is becoming hard to dispose of the surplus stock. Bulbous stock, with the exception of Southern narcissus, is in lighter supply. Business generally is quiet.

PHILADELPHIA Market almost swamped with flowers the past week, some of it poor and not movable at all, while the best had a hard road to travel. The weather for a week has been the warmest in the memory of the oldest for March, — 88 one day, and for days 70 to 75. Southern daffodils an avalanche, and any price at all thankfully received. A few choice ones brought fair money, but majority of stock poor quality and mostly unsalable. Roses promise to shorten up this week, which will help other lines, and all hopes are now centered on having more seasonable weather.

BUSINESS CHANGES

Stocke & Bucksaht have started in the florist business at 3817 Lincoln Ave., St. Louis.

George Augermuller has opened a new wholesale cut-flower establishment at 1324 Pine Street, St. Louis.

GREENHOUSES BUILDING OR PROJECTED

SHAWOMET, R. I. — L. L. Potter, carnation house, 24×150.

COLDWATER, MICH. — Van Aken Bros., two rosehouses, each 26×116.

BEDFORD, MASS. — Seldon Gates, range of vegetable houses.

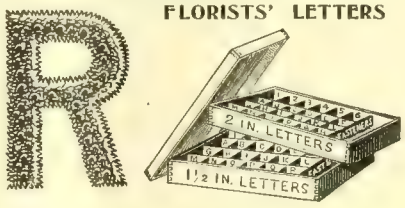
Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON
In writing to advertisers, mention HORTICULTURE

FRED EHRET WHOLESALE **FLORIST**
Center for BRIDES, MAIDS, BEAUTIES CARNATIONS, Etc.
1403-5 Fairmount Ave., PHILADELPHIA.
Established 1890
Mention HORTICULTURE when you write.

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTUR

BOSTON FLORIST LETTER CO.
MANUFACTURERS OF
FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 4. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.
N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.
In writing advertisers, mention HORTICULTURE

J. H. LEE, Pres. GEO. N. MARCH, Treas.
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Koral Manufacturing Co.
Office and Factory
26 HAWLEY STREET, BOSTON, MASS.
Telephone, Main 3978-1 J. B. Olden, Mgr.

Green Silkaline.
Do not be put off with cheap substitutes.
John C. Meyer & Co.,
30 Kingston St., Boston, Mass.
Kindly mention HORTICULTURE when writing

WILLIAM J. BOAS & CO.
...MANUFACTURERS OF...
Folding Flower Boxes
No. 1042 RIDGE AVENUE, PHILADELPHIA
Write for Price List and Samples
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REED & KELLER
122 W. 25th St., New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Galax Leaves and all Decorative Greens
Agents for CALDWELL'S PARLOR BRAND WILD SMILAX
In writing to advertisers, mention HORTICULTURE

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
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JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
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Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
VIOLETS
Carnations
Lily of the Valley
Hyacinths, Lilies
Paper Whites, and
all other flowers
in season
Telephones 2200 2001 Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending April 1 1905	First Half of Week begining Apr. 3 1905
ROSES		
Am. Beauty, fan. and sp	12.00 to 20.00	12.00 to 20.00
" extra	8.00 to 10.00	8.00 to 10.00
" No. 1	2.00 to 4.00	4.00 to 6.00
" Lower grades	.50 to 2.00	1.00 to 2.00
Bride and Maid, fan. and sp	4.00 to 6.00	5.00 to 6.00
" " extra	3.00 to 4.00	3.00 to 5.00
" " No. 1	1.50 to 2.00	1.50 to 3.00
" " Lower gr	.75 to 1.00	1.00 to 1.50
Liberty, fan. and sp.	12.00 to 20.00	12.00 to 20.00
" extra	6.00 to 10.00	6.00 to 10.00
" No. 1	2.00 to 3.00	3.00 to 5.00
" Lower gr	.50 to 1.00	1.00 to 2.00
Golden Gate Best	4.00 to 8.00	..... to .....
Ivory Medium	1.50 to 2.50	.. to ...
Chatenay Culls	.75 to 1.00	.. to .....
CARNATIONS		
Fancy Class	2.00 to 4.00	2.00 to 3.00
General Class	1.00 to 1.50	1.00 to 2.00
Lower Grades	.50 to .75	.75 to 1.00
VIOLETS		
Special	.30 to .50	.25 to .35
General	.25 to .30	.15 to .20
Single	.... to	..... to .....
ORCHIDS		
Cattleyas	40.00 to 60.00	.... to .....
Cypripediums	.... to	.... to .....
BULBOUS		
Lilies	4.00 to 6.00	3.00 to 8.00
Lily of the Valley	1.00 to 4.00	1.00 to 2.00
Roman Hyacinths	2.00 to 3.00	..... to ....
Paper White Narcissus	.... to	1.00 to 2.00
Daffodils	.... to 2.00	1.00 to 2.00
Tulips	2.00 to 6.00	..... to 2.00
Callas	..... to	..... to .....
Freesia	..... to	..... to .....
MISCELLANEOUS		
Mignonette	1.00 to 3.00	1.00 to 3.00
Sweet Peas	.50 to .75	.50 to .75
Adiantum Cuneatum	.... to	.75 to 1.00
" Croweanum	1.50 to 2.00	..... to 1.50
" Farleyense	12.00 to 15.00	..... to .....
Smilax	15.00 to 25.00	12.00 to 16.00
Asparagus Plumosus, strings	..... to 50.00	20.00 to 50.00
" " bunches	20.00 to 30.00	20.00 to 35.00
" Sprengeri "	12.00 to 35.00	20.00 to 25.00
Gardenias	..... to	3.00 to 12.00
Lilac, per bunch	.75 to 1.00	..... to .....
Jacq	..... to	..... to .....
Brunner	..... to	..... to .....

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

Chas. Smith
Wholesale Florist
At The Flower Market
55 to 57 W. 26th Street, New York City

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. Cut Flower Exchange. NEW YORK
OPEN 6:00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 W. 28th St., New York
Tel. 2559 Madison Sq.

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING [1 Flight
55-57 W. 26th St., New York

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
Traendly & Schenck
44 West 28th St. New York City
Telephones, 798-799 Madison Square]
In writing to advertisers, mention HORTICULTURE

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI April 5	BALTIMORE April 3	BUFFALO April 3	PITTSBURG
ROSES				
Am. Beauty, fan. and sp.	40 00 to 45 00	25.00 to 35 00	20 00 to 25.00	..... to .....
" extra	30 00 to 35.00	15 00 to 20 00	10.00 to 15.00	..... to .....
" No. 1	18 00 to 25 00	10 00 to 12.50	6 00 to 8 00	..... to .....
" Lower grades	4 00 to 8 00	3 00 to 6 00	2 00 to 4 00	..... to .....
Bride and 'Maid, fan and sp.	6 00 to 8.00	..... to	..... to	..... to .....
" " extra	5.00 to 6 00	7.00 to 8 00	7 00 to 10 00	..... to .....
" " No. 1	3.00 to 4 00	..... to 6 00	4 00 to 6 00	..... to .....
" " Lower gr.	..... to 2.00	4 00 to 5.00	2.00 to 3.00	..... to .....
Liberty, fan. and sp.	6.00 to 10 00	..... to	..... to	..... to .....
" extra	..... to 5 00	..... to	7 00 to 8 00	..... to .....
" No. 1	..... to 4.00	..... to	4 00 to 5 00	..... to .....
" Lower gr.	..... to 3 00	..... to	2 00 to 3 00	..... to .....
Golden Gate } Best	..... to 8 00	8 00 to 10 00	..... to 6 00	..... to .....
Ivory } Medium	5 00 to 6 00	6 00 to 7.00	..... to 4 00	..... to .....
Chatenay } Culls	3.00 to 4 00	4 00 to 5 00	..... to 2 00	..... to .....
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 4 00	2 00 to 2.50	2 50 to 3 00	..... to .....
General Class	2.00 to 3 00	1.50 to 2 00	1 50 to 2 00	..... to .....
Lower Grades	1.00 to 1.50	1 00 to 1.25	.75 to 1 00	..... to .....
VIOLETS				
Special	..... to .50	..... to	..... to	..... to .....
General	..... to .25	.25 to .40	.20 to .40	..... to .....
Single	..... to .15	..... to	..... to	..... to .....
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	10 00 to 12 50	6.00 to 12 50	10 00 to 12 50	..... to .....
Lily of the Valley	3 00 to 4 00	3 00 to 4 00	2 00 to 4 00	..... to .....
Roman Hyacinths	2 00 to 3.00	1 50 to 2 50	2.00 to 3 00	..... to .....
Paper White Narcissus	..... to 2.50	2 00 to 3 00	..... to	..... to .....
Daffodils	1 00 to 3 00	25 to 1 00	.25 to 3 00	..... to .....
Tulips	2.00 to 4 00	..... to	2 00 to 3 00	..... to .....
Freesia	..... to	.50 to 1.50	1 00 to 2 00	..... to .....
Callas	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	2.00 to 3 00	2.00 to 4 00	..... to .....
Sweet Peas	.50 to .75	.50 to .75	.30 to .50	..... to .....
Adiantum Cuneatum	..... to 1 00	..... to 1 00	.75 to 1 00	..... to .....
" Croweanum	..... to	..... to	..... to 1 50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12 50 to 15 00	15.00 to 20 00	..... to 15 00	..... to .....
Asparagus Plumosus, strings	..... to 50 00	25.00 to 50 00	40 00 to 60 00	..... to .....
" " bunches	..... to 35 00	..... to	..... to	..... to .....
" Sprengeri "	25.00 to 35.00	..... to	..... to	..... to .....
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, per bunch	1.00 to 1.50	..... to	..... to	..... to .....

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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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Philadelphia.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Fred Ehret, 1403 Fairmount Ave., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612–18 Ludlow St., Philadelphia, Pa.
Philadelphia Cut Flower Co., 1516–1518 Sansom St., Philadelphia, Pa.
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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
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Fred. W. Kelsey, New York. A neat rhododendron "folder."

Elm City Nursery Co., New Haven, Conn. A catalogue of more than usual comprehensiveness. Lists give both botanical and common name with faithful exactness. Handsomely illustrated.

Bay State Nurseries, North Abington, Mass. 1905 List of ornamental trees, shrubs, and herbaceous perennial plants. Cover plain and contents substantial. A good list of good things.

Northern Star Potato

Having grown several acres of this wonderful Potato last season, when it sold at **$1000.00 a ton.** we can supply the true stock, in especially prepared, iron bound, well ventilated cases of 100 lbs. net, F. O. B. Southampton, $3.00 per case.

Brinkworth & Sons, Ltd.
Potato Growers and Experts
SOUTHAMPTON, ENGLAND
In writing to advertisers, mention HORTICULTURE

PURE CANADA UNLEACHED
Hardwood Ashes
The best and most lasting fertilizer in the world. For the purest grade use the JOYNT brand. Write for prices and information to
JOHN JOYNT, Lucknow, Ontario, Canada
Reference—Bradstreets' Agency
In writing to advertisers mention HORTICULTURE

Thorburn's Bulbs

LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per Case of 3000 for - - - $24.00
Two or more cases at - $7.50 per 1000

J. M. THORBURN & CO.,
36 Cortlandt St., New York.
In writing to advertisers, mention HORTICULTURE

GLADIOLI
THE BEST IN THE WORLD
Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.
WRITE FOR ILLUSTRATED CATALOGUE
ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

Schlegel & Fottler Co.
26 So. Market St., Boston, Mass.
Are Headquarters for
Seed Potatoes
Vegetable, Flower and Grass Seeds
Send for Catalogue
In writing to advertisers, mention HORTICULTURE

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts
Leading Machines
32 So. MARKET ST., BOSTON
In writing advertisers, mention HORTICULTURE

Quality Seed Bulb Plant **S**
Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street *NEW YORK*

Plant your advertisements here. It is good ground and will yield famously.

SPECIAL STOCK FOR EASTER
The New Jersey Moss & Peat Co.
Established 1890. BARNEGAT, N. J.
IRVING PREDMORE, Prop.
Wholesale and Retail Dealers in MOSS and PEAT
10,000 Bales on hand for 1905

We take pleasure in handing you this circular and trust you will take time to read it and be benefited by it. We have been in this business for the past fifteen years, so in dealing with us you are sure of getting the benefit of our fifteen years' experience in this line.

We quote Moss at the following prices; Natural Growth Moss, Bales of 5 barrels, $2.25; Bales of 10 barrels, $4.25, this grade is for fine design work. Selected Stock Moss, bales of 5 barrels $2.60; Bales of 10 barrels, $5.00, this grade is for Very Fine Design Work and Special Occasions For Nursery Stock Moss please write us for prices. Cash with order we will allow six per cent off.

DID YOU EVER TRY ANY OF OUR LEAF MOULD, FIBROUS OR ROTTED PEAT? If not, order at once, as it is one of the greatest things known for growing Grass, Flowers and Plants. They are used very extensively in Parks and Cemeteries for this purpose.

LEAF MOULD, FIBROUS AND ROTTED PEAT we name the following price per One Barrel Sack; Lots of One to Five Sacks, $1.00, 5 Sacks, at 90 cents, 10 Sacks at 80 cents, 15 Sacks at 75 cents, 20 Sacks at 70 cents and 25 Sacks at 65 cents.

GREEN CLUMP MOSS, per Sack, 1 to 5, $1.50, 5 Sacks, $1.25; 10 Sacks, $1.12; and 20 Sacks $1.00. SILVER SAND, per barrel 1 to 5, $1.75; 5 bbls. $1.50; 10 bbls $1.25, 20 bbls $1.12; 25 bbls. $1.00

HONORABLE MENTION.
Society of American Florists.
This is to certify that Irving Predmore is entitled to HONORABLE MENTION for having clean and well packed SPHAGNUM MOSS and PEAT. Exhibited at Cleveland, Ohio, August 18-21, 1896.
WILLIAM SCOTT, Pres. WM. J. STEWART, Sec.

NOTICE. Enclose this coupon with cash and you may have your choice of these Special Offers.

NATURAL GROWTH SELECTED

1-10 Barrel Bale for	$3.90	$4.50
2-10 " " "	7.75	8.75
3-10 " " "	11.50	13.50
6-10 " " "	22.50	25.50
10-10 " " "	37.00	40.00

This offer will expire on June 1, 1905.
Trusting you will favor us with an order, we are,
Yours respectfully,
New Jersey Moss & Peat Co.
Reference, Wachenderff Bros., Atlantic, Ga., R. & J. Farquhar & Co., Boston, Mass.

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE
Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y
In writing to advertisers, mention HORTICULTURE

W. W. RAWSON & CO. Arlington Tested SEEDS BOSTON MASS
RAWSON'S
Arlington Tested
SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
In writing to advertisers, mention HORTICULTURE

BULBS
HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
17 Battery Pl. New York
In writing to advertisers, mention HORTICULTURE

Tuberoses, Lily of The Valley
Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 No. Market St. Boston, Mass.
In writing to advertisers, mention HORTICULTURE

BURPEE'S SEEDS
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
In writing to advertisers, mention HORTICULTURE

NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST



FOR SALE BY SEEDSMEN
24 sheets, 75c.; 144 sheets, $3.50; 288 sheets, $6.50
(Only 2¼ c. each)

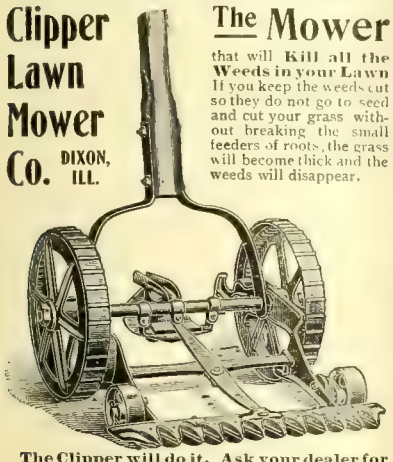
Packed in Friction-Top Tins
Preventing Loss by Evaporation

Mfd. by KENTUCKY TOBACCO PRODUCT CO.
LOUISVILLE, KY.
In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will **Kill all the Weeds in your Lawn**
If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7; No 4—21-in. Mower, $8. Send draft, money order or registered letter.
In writing to advertisers, mention HORTICULTURE

WE OWN THE FIFTY MILLION DOLLAR WORLD'S FAIR

The Chicago House Wrecking Company purchased the entire St. Louis Exposition, with all its Millions of Dollars worth of equipment and supplies. This is an unequalled opportunity for Florists and Greenhousemen to secure equipment and materials for improvement at very low prices. It is all offered for sale from our Headquarters on the World's Fair Grounds.

Below we list some of the more important items:

BOILER TUBES. — Two carloads of 3½- and 4-inch good Boiler Tubes that have been used. We took these out of several boilers that we dismantled on the Exposition Grounds, and as they are practically as good as new, they are of special value. The ends have been cut square, they have been rattled and they are free from scales and imperfections. They are in long lengths. They are just what you require for extending your Heating System.

We furnish with these tubes at small cost wrought iron sleeve couplings threaded one size larger than the boiler tubes themselves. For large quantity orders we will make special low prices. At our Chicago Plant we have 200 carloads of such tubes for delivery.

GREENHOUSES. — We offer for sale the three complete Greenhouses used on the Exposition Grounds Each Building, 22 · 300 ft., with all latest improvements, double-strength glass, ventilating apparatus, Heating Plant, pipe, valves and fittings. Sketch and full information on application. We will sell these Greenhouses singly.

HOT-BED SASH. — 10,000, good as new, have heavy frame. Advise us how many you can use.

FLOWER POTS. — 20,000 Paper Flower Pots that have never been used. Low prices for quick delivery.

25,000 **PLANTS.** — All the Plants now stored in the Hot House are in first class condition They are being properly taken care of and consist of the following: — 500 Bay Tree Standard, in tubs, also Pyramid, 3,000 Crotons, 1,000 Large Philanthus, 1,000 Kentias, 600 Mixed Alternanthera, 2,000 Echeveria, 5,000 Solanum Hend, 5,000 Vinca Major, 5,000 Santolina, 200 Ammonium, 2,000 Matricaria, and thousands of others.

LUMBER. — 100,000,000 feet of Highly Seasoned Lumber ready for quick delivery. We are making extremely low prices in carload lots. If you are interested, send us your carpenter's bill for our estimate.

PIPE. — 10,000,000 feet of Standard Black Wrought Iron Pipe. It has seen service only during the Exposition. Sizes range from ⅛- up to 42-inch. We can furnish you pipe of any kind. Write for complete list.

GREENHOUSE FITTINGS. — Anything needed in the line, as our stock is complete. Write us your requirements. We can furnish you valves, fittings, etc.

Thousands of other items: Garden Hose, Pumps, Step Ladders, Glass, Sash, Doors, etc., etc.

ASK FOR SPECIAL WORLD'S FAIR CATALOGUE No. 554.

CHICAGO HOUSE WRECKING CO.

35th AND IRON STS., CHICAGO — World's Fair Grounds, St. Louis, Mo.

In writing to advertisers, mention HORTICULTURE

MASTICA



FOR Greenhouse Glazing

USE IT NOW.

Joseph Breck & Sons
CORPORATION
AGENTS

We are the Manufacturers' Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston Mass.

If you offer the right goods in the right way in these columns, you will not lack for customers.

TWEMLOW'S
Old English Glazing Putty,
SEMI-LIQUID,

For bedding glass in sash or for filling cracks or seams in roof joints or frames
OF GREENHOUSES OR HOT BEDS.

THIS **PUTTY** Is used in Machine or Bulb.

If too thick for bulb thin with a little Pure Linseed Oil, boiled.

So thinned it can be brushed into any crack or leak, making a solid filling.



THIS **PUTTY** makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault.

When once set on dry wood it does not heave.

MANUFACTURED IN THE UNITED STATES ONLY BY

HAMMOND'S PAINT AND SLUG SHOT WORKS,
FISHKILL-ON-THE-HUDSON, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

GREENHOUSE GLASS

We are taking orders NOW for late Spring Delivery. We DO NOT advise DELAY. We DO NOT sell POOR GLASS but guarantee BEST MAKES.

Hot Bed Glass at our store ready for delivery.

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

Pecky Cypress Bench Lumber

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED.

Write for Circular "D" and Prices

The A. T. Stearns Lumber Co.

NEPONSET - - BOSTON, MASS.

In writing to advertisers kindly mention HORTICULTURE

SPRING TOOTH HOE

Made of best tool steel, adjustable in width, middle tooth can be removed to straddle a row in case of small plants. Has four-foot handle, weighs complete 3½ lbs. For cultivating land by hand this tool does it in ¼ the time and does better work than any other hand tool. Thousands in use; every owner satisfied —

Send $1.25 for the tool and you will get it by first express.

SATISFACTION GUARANTEED OR MONEY REFUNDED

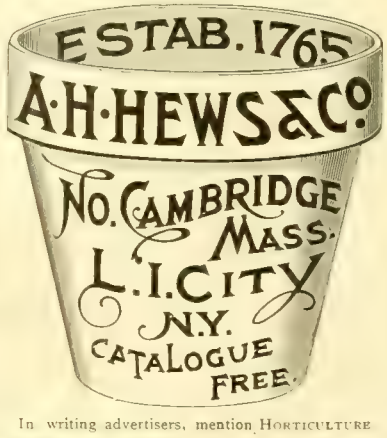
Reference for my responsibility: Dun's or Bradstreet's or Union Bank, Jackson, Mich.

E. H. HITCHCOCK, Glenwood, Mich.

Agents wanted everywhere.

In writing to advertisers, mention HORTICULTURE

Advertising costs good money. We are doing our best to make it remunerative to our patrons.



In writing advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene,* and of course better than *ordinary Lamps.*

The ANGLE LAMP is *guaranteed* as *representea* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light*

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

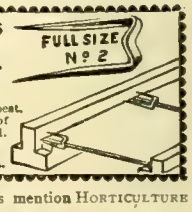
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Holds Glass Firmly

See the Point

PEERLESS

FULL SIZE No 2



Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

In writing to advertisers mention HORTICULTURE

GLASS

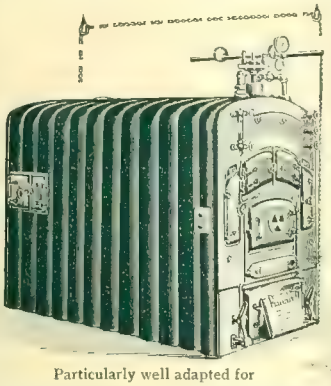
Buy Now and Save Money

We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

SHARP, PARTRIDGE & CO. 22d and Union Place **CHICAGO**

"Entirely Satisfactory"
That's what prominent Florists say of the celebrated
Furman Boilers



Particularly well adapted for
Greenhouse Heating
Write us for Illustrated Catalogue and *Special Florists' Prices.* Address
THE HERENDEEN MFG. CO.
Dept. H. T. GENEVA, N. Y.

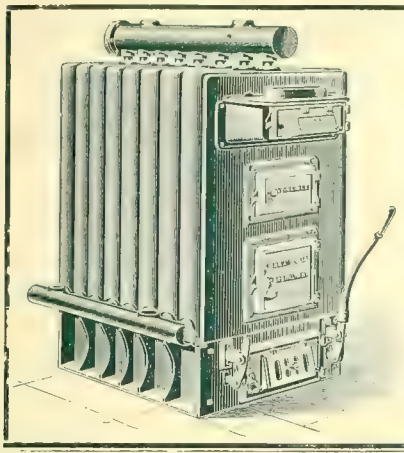
Mention HORTICULTURE when you write.

FOUND
A place where new and old material for the complete erection or repairing of...
GREENHOUSES
can be procured in
Exchange for Cash
Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hotbed Sash, Etc.
OLD GREENHOUSES BOUGHT
METROPOLITAN MATERIAL CO.
1398-1408 Metropolitan Ave. BROOKLYN, N. Y.
References:
Dun, Bradstreet and Broadway Bank of Brooklyn

In writing to advertisers, mention HORTICULTURE

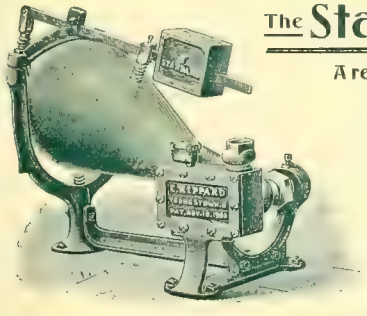
SEND FOR
New Green House Catalogue
JUST ISSUED BY
King Construction Co.
North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE



Scollay Invincible **Boilers**
—FOR—
Hot Water or Steam
Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.
John A. Scollay
23 & 25 MYRTLE AVE.
Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST BOSTON

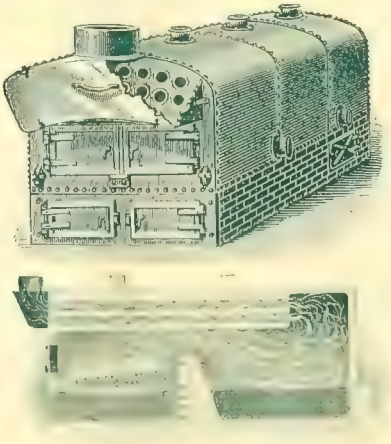


The Standard Steam Trap
A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return.
Testimonials if desired
Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.
Send for Catalogue
E. Hippard, Youngstown, Ohio

H. H. SYLVESTER
Mason and Builder
818 Tremont Building
Boston, Mass.
Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler
47 ERIE ST., CHICAGO



Boilers made of the best material, Shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.
In writing to advertisers, mention HORTICULTURE.

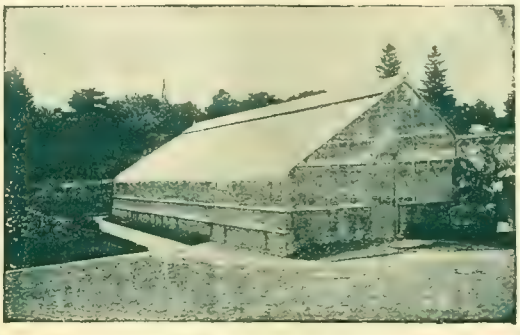
INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

EXPRESS WRITE FOR CATALOGUE.
GREENHOUSE MATERIAL
OF EVERY DESCRIPTION
JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

The Pierson-Sefton Co.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



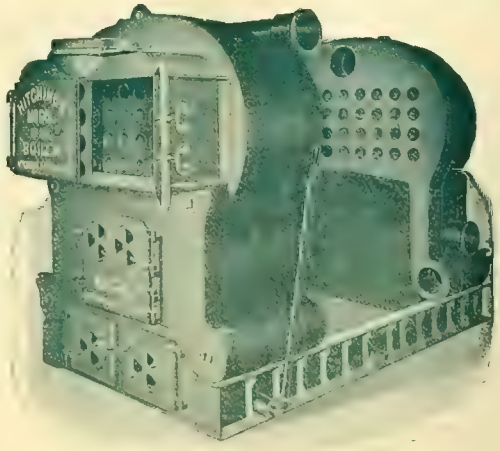
Interior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

In writing to advertisers, mention Horticulture

HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOCUL



NEW MOCUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK
233 Mercer Street

BOSTON
819 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention Horticulture



Designed and erected for Judge W. H. Moore, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

New York Office . . . . St. James Bldg., Broadway and 26th St.
General Office & Works . . . . . Irvington-on-Hudson, N. Y.

In writing to advertisers, kindly mention Horticulture

HORTICULTURE

Vol. I APRIL 15, 1905 No. 20



A Wisteria Bower

Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, $1.00

EASTER BEAUTIES

Shall have a large supply worthy of the name.

LILIES CARNATIONS VIOLETS

WALTER F. SHERIDAN

Wholesale Florist

39 West 28th St. NEW YORK

Tel. 902 Madison Sq.

In writing to advertisers, kindly mention HORTICULTURE

HEADQUARTERS FOR

Violet Plants for Easter

A full line of Roses, Carnations, Lilies, Violets and Bulb Flowers

FORD BROTHERS

New Address: 48 West 28th St., NEW YORK Tel. 3870 3871 Madison Sq.

In writing to advertisers, kindly mention HORTICULTURE

April 23

Very late as you are aware for some flowers, and present indications point to a shortage in many most desirable Easter favorites. Send orders early and avoid regrets.

EDWARD C. HORAN

Cut Flowers at Wholesale

55 West 28th Street

Tel. 1462 1463 Madison Square New York

In writing to advertisers, kindly mention HORTICULTURE

W. GHORMLEY

WHOLESALE

Commission Florist

57 West 28th St., NEW YORK CITY

Orders promptly filled for all varieties of

CUT FLOWERS

FOR EASTER

We can furnish you with the Finest

VIOLETS

To be Produced in the Country

Telephones, 2200 Madison Sq.; 2201 Madison Sq.

EASTER 1905

TRAENDLY & SCHENCK

WHOLESALE FLORISTS

'Phones, 798-799 Mad. Square 44 W. 28th St., New York City

ANNOUNCEMENT !!!

WE WILL HAVE the cut of 20,000 Jack Plants for EASTER.
WE WILL HAVE the cut of 10,000 Brunner Plants for EASTER.
WE WILL HAVE the largest supply of Maids, Brides and Liberty.
WE ARE HEADQUARTERS for Golden Gate, Uncle John, and Chatenay.
We are supplied daily with large quantities of all the leading varieties of Carnations.
Everybody knows that in the handling of Violets we LEAD THEM ALL.
You can have any part of the above stock you may want for Easter by ordering Early.

Traendly & Schenck

In writing to advertisers, kindly mention HORTICULTURE

HEADQUARTERS
—FOR—
KILLARNEY

SIEBRECHT & SON

Rose Hill Nurseries New Rochelle, N.Y.

In writing to advertisers, kindly mention HORTICULTURE

Easter Plants

Azaleas, Lilies, Ramblers, Rhododendrons, Bougainvilleas, Gardenias, etc.

Get your order in early. Price list on application

Samuel S. Pennock

THE *WHOLESALE FLORIST OF* **PHILA.**

In writing to advertisers, kindly mention HORTICULTURE

Poinsettia

Strong stock plants from bench
$10.00 per 100

Thorn Hedge Greenhouses

Newtown Square, Pa.

In writing to advertisers, kindly mention HORTICULTURE

ROSES!

Gen'l MacArthur	La Detroit
Bride	Perle des Jardins
Bridesmaid	Mme. Chatenay
Liberty	Mme. C. Testout
Mrs. Morgan	Mrs. Ames

And many others

Remember there are none better in the country

John N. May, Summit, N.J.

In writing to advertisers, kindly mention HORTICULTURE

Getting Ready For Easter ?

BUY YOUR FLOWERS

----- FROM -----

John I. Raynor

WHOLESALE

FLORIST

49 West 28th St., New York

TELEPHONE, 1998 MADISON SQ.

Selling Agent for Largest Growers

In writing to advertisers, kindly mention HORTICULTURE

ORCHIDS ORCHIDS

BUYERS OF ORCHIDS

BUY OF

James McManus

50 West 30th St.
New York

Valley
Roses
Daisies
Carnations
and
Asparagus

DEMANDS
EXCEED
SUPPLY

Growers
OF ORCHIDS
SEND ALL TO

James McManus

50 West 30 St., NEW YORK Tel. 759 Madison Sq.

In writing to advertisers, kindly mention HORTICULTURE

HIGH GRADE Easter Plants

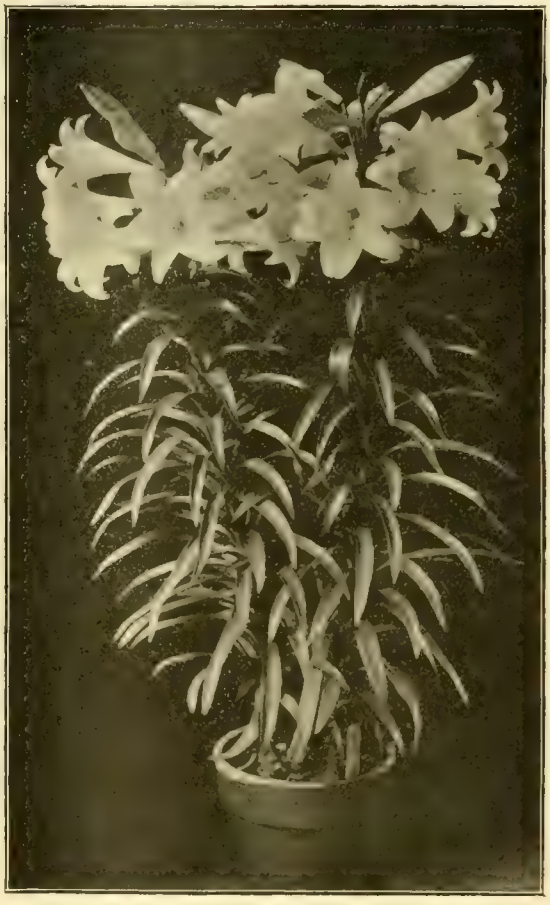
20,000 Pots of Lilies

2,000 Crimson Ramblers
$1.00 to $20.00

1,000 Azaleas
.50 to $3.00

4,000 Hybrid Roses
.40 to $1.00

600 Hydrangeas
$1.00 to $5.00



500 Genistas
.30 to $1.00

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NEXT WEEK'S ISSUE will have continuation of Ferns by A. Hans, Echoes from England by H. H. Thomas, Carnation Breeding by C. W. Ward, Clivias by Kenneth Finlayson, and many interesting articles on the Moth Problem and Outdoor Art and Craft.

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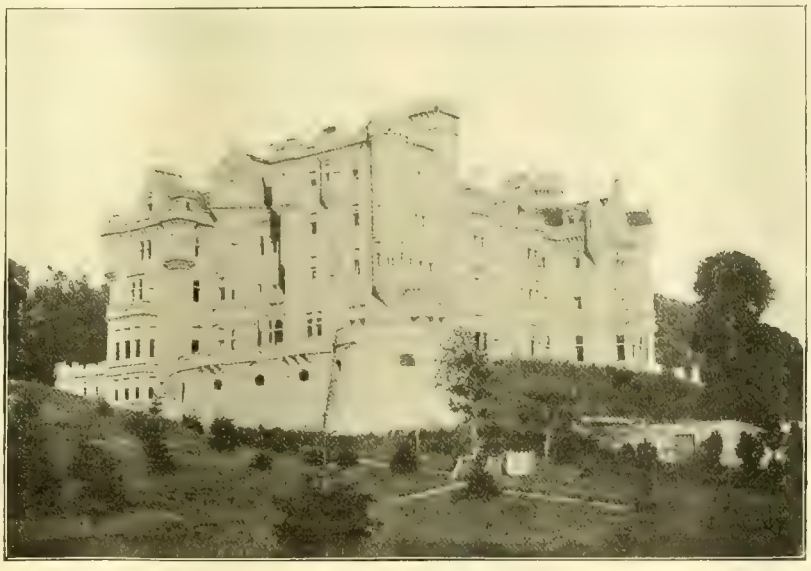
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Skibo

Only since its purchase by Mr. Andrew Carnegie has Skibo Castle and estate attracted the attention of many people in this country, yet to students of Scottish history it is known as a place where, ages ago, remarkable occurrence stook place — occurrences fraught with direct consequences to many participants. The latest historical event associated with Skibo Castle was the brief imprisonment within its walls of the great Montrose, while journeying a captive to his doom in Edinburgh.

Long ago, however, the "scene was changed"; Skibo Castle of the days of war and strife was demolished, giving place ultimately to a lordly residence (although no lords had their dwelling there), the abode of peace and quiet, where dwelt generations of men and women famous for many things, but conspicuously so for their generous natures, and a passion for gardening. It was to one of these men, Dempster, laird of Skibo, that Burns alluded to as, "Dempster, a true-blue Scot." It was this same Dempster who laid out the beautiful gardens and grounds for which Skibo has long been noted in the north of Scotland. Although beautiful gardens and grounds were there long before his time, it was he who planned and laid out, or had laid out, the place as it exists (with, but few alterations, as far as the grounds are concerned) today. A statement of this fact would seem a sufficient assurance of their merit when Andrew Carnegie, with millions at his disposal, has so far refrained from altering on attempting to improve them, reports to the contrary notwithstanding. It is true that he spent fabulous sums on alterations to the castle, and improvements on the estate, but the garden and grounds he has not molested, as they were already very well done.



Skibo Castle

Some may ask how can there be such a beautiful place in that far cold Northland; how can flowers and shrubs and trees grow where it is so bleak and cold? To those who know not whereof they speak these questions and comments may appear reasonable, while the statements will no doubt appear surprising, that the climate of that part of Sutherlandshire, where Skibo Castle is situated, is much milder than that of the State of New York; the winters are much shorter, resulting in earlier springs. It is true that there is less sun heat, a fact detrimental to successful operations in some branches of horticulture, but the ramifications of Jack Frost being correspondingly less felt, makes it easy to grow things there that have to be petted and cooped like early spring chickens here in Rhode Island — for instance, the laurel and holly. We mention these first because they are the commonest there. Hybrid perpetual roses and roses on trellises stand there without protection in the winter. Fuchias are there by the hundreds, although they have some light protection; but where would they be here after one winter such as this, protect them as much as we please? they would be in the dump. These, and many other things that might be noted as well, serve as instances to prove that the climate there is not so severe as many people might suppose.

The grounds and gardens of Skibo Castle are very extensive. The vegetable or kitchen-garden together with its hedges, trellises, herbaceous borders, and orchard, comprises between eight and nine acres; the flower-garden is nearly as large, with upwards of two hundred acres of policies traversed by walks beautifully kept. There are some magnificent trees there, some of the finest beeches I ever saw, and the yews, pines, and maples do not suffer in comparison, even in this country, the land of giant trees.

Long before my time the range of greenhouses at Skibo was extensive, and no doubt there have been additions since my recollection of them, but even then, to me, they seemed wonderful. There was a large conservatory, one greenhouse, two vineries, one peach and nectarine house, a stove, and a fern house, besides a melon house and a propagating house, the latter heated by a flue, the last remaining relic of other times, when flues were all they had. As I said before, this seemed a wonderful range of glass to me then, and at those who told me of grander things I simply scoffed, but in later

years, when I journeyed southward and beheld the immense ranges of glass there, my idol was shattered. Only, however, so far as the glass was concerned; the gardens and grounds I held to still, as I do today, taking them with their romantic, grand, and picturesque surroundings of mountain, river, and vale as my ideal, notwithstanding the admission of the existence in the south of Scotland, and to a greater extent still in England, of vastly larger and better appointed places.

Andrew Carnegie sought long and discriminately for a spot wherein to enjoy in peace and quiet the remaining years of an extraordinarily active life, and he found it in Skibo. Skibo has suffered not thereby. On the contrary, the fact of his acquiring the estate almost ensures its well-nigh perpetual maintainence of beauty and grandeur of olden times.

David McIntosh.

Decorative Art





We would suggest arranging tulips in a low receptacle as shown in the above illustration. The tall vase is a good example of how not to do it.

H. H. Battles.

Musa paradisiaca var. rubra

The Revue Horticole devotes a page in a recent number to a beautiful colored plate of a new red-leaved banana. One of these musas is at present to be seen in the Colonial Garden, where it is a very striking object. The plant is thus far known only to a very few. Its decorative effect is marvellous.

Its history is given as follows. It was first discovered in 1891 by the Dybowski mission party while at Brazzaville, preparing to go up the Congo river. On returning to France in 1892, M. Dybowski brought with him three clumps of which but one survived. This attracted great attention at the national horticultural exposition of 1893 at Paris. This plant unfortunately died afterwards. In 1899 and 1900 the Colonial Garden received several clumps, which under cultivation made a gratifying increase in robust plants, and so its perpetuity is now assured.

The colored plate shows the plant with fruit and a half-grown plant with well developed, broad leaves, similar to M. Cavendishii in appearance, but of more graceful habit. This novelty will unquestionably prove of great value for sub-tropical decorative planting. In the hands of the commercial grower, it is assured of a great future as the value of such a color in sub-tropical work is apparent to all.

J. F. Huss.

Paphiopedium Barbato-Rothschildianum

From the G. B. Wilson collection



One of the most noteworthy of the many meritorious Rothschildianum hybrids of recent introduction. Twin-flowered spike of good length. Flower very large and shapely. Dorsal sepal greenish yellow, heavily veined with blackish crimson. Inferior sepal same color. Petals slightly drooping, richly suffused with reddish brown at the tips, profusely blotched with almost black spots. Pouch of good size, and of rich vinous red color. Plant is of very vigorous habit, and free flowering.

Charles J. Bond

Luculia gratissima

The interesting articles in HORTICULTURE about this old-world favorite, have brought back memories which savor somewhat of an historical nature in regard to this particular plant and, as such, may possibly interest some of your numerous readers.

Back in the early seventies, practically the whole of the trade in Great Britain and Ireland were supplied with stock of this plant by the firm of Cunningham & Frazer of Comely Bank Nurseries, Edinburgh, at that time being carried on by Mr. Frazer alone. In addition to extensive nurseries containing choice blocks of rhododendrons and hollies, and a most complete collection of alpines and hardy herbaceous plants, there was (for that period) quite a range of glass, pits, and frames. In one of the old-fashioned lean-to's, were two enormous old plants of Luculia gratissima, and a smaller plant of another luculia, of which I cannot recollect the name, it had smaller and more lanceolate leaves and, while the flowers were smaller than gratissima, they were considerably darker in color. One of the gratissimas was planted in the back border, and was trained over the entire wall; the other was planted at one end and trained over a trellis through the center of the house. I have seen them in all stages, having occasion to visit Comely Bank, every two or three weeks, for the two years I was in Edinburgh and the glory of those two plants in bloom and the indescribable fragrance is yet a pleasant memory. Mr. Frazer propagated them from cuttings of fairly ripened wood, of two or three eyes, inserted in two-inch pots of sand and loam, and plunged in cocoanut fiber with a mild bottom heat.

Charles Ingram

British Horticulture

The Sweet Pea "G. O. M."

A movement is on foot to present a testimonial to Mr. Henry Eckford, the "Grand Old Man" of the sweet pea world, in recognition of his valuable services to horticulture. Although past his eightieth year, Mr. Eckford is as enthusiastic as ever in the culture of sweet peas. His long association with open-air life has secured for him the best of health, and an infectious geniality which has endeared him to his many friends. A friend of mine who visited him at his nursery at Wem in Shropshire, sometime ago, writes: "Whether the cultivation of sweet peas is conducive to cheerfulness I do not know, but the impression Mr. Eckford left on me was that I had seldom met such a happy old man before." As far back as 1870, Mr. Eckford, who at that time lived in Gloucestershire, began to improve the sweet pea The best collection at that time consisted of five varieties only, named White, Scarlet, Black, Painted Lady, and Butterfly. By crossing and intercrossing all these varieties he obtained in 1882 a distinct kind which he christened Bronze Prince. From that time novelties which have enhanced the popularity of this particular flower have annually been sent out from Wem, and a large number have been certificated by the Royal Horticultural Society.

Mr. Eckford's Methods

The seed is grown from the stocks raised at the Wem nursery in various parts of the country found particularly suitable. It usually takes about six years to finish a new type of sweet pea. February is the chief month for sowing, and sticks from six to eight feet high are utilized. The bamboo is kept in position by winding one or two rows of yarn around the sticks. The land is given a good dressing of farm-yard manure, with a little super-phosphate. The fact that Mr. Eckford has secured eighty gold and silver medals attest to the success attending his enterprise. A large staff is engaged in the despatch department, where seeds are sent away to all parts of the world. The chief novelties now being sent out are Romolo Piazzani, a splendid blue, Black Michael, red maroon, and David R. Williamson, bright indigo. Although Mr. Eckford's name is generally associated with sweet peas, he has also made a great reputation with his verbenas.

A Statesman's Hobby

When not engaged in his active campaign for tariff reform or at his Parliamentary duties, Mr. Joseph Chamberlain spends his leisure among his valuable collection of orchids at his mansion at Highbury, near Birmingham. When in London an orchid is daily sent to him for his button-hole, and this floral badge is always a welcome detail for our caricaturists, and is as inseparable from their drawings as his eye-glass. If this political celebrity would only adopt some cheaper button-hole there would soon be a rage to follow his example by his many admirers. The primrose is associated with the memory of the late Lord Beaconsfield, and is extensively worn in April on the anniversary of his death, to the great advantage of flower retailers. An orchid day, owing to the high prices, is out of the question. Roses are largely worn on St. George's Day, but these can be obtained as low as a penny each. Some admirers of Mr. Chamberlain have lately been exploiting his floral fancy in the interests of charity. They obtained an orchid and spray of maiden hair fern from the statesman, and this realised £4 for a parochial charity. The orchid was sold by auction for 5*s.* 6*d.*, and the maiden-hair fern for 1*s.* 6 *d.* The remainder was made up by charging an entrance fee to view the bloom, and also by selling photographs of the gift on postcards. After this it cannot be said that hero worship is flagging on this side.

Profitable Bulb Culture

The interior of the Savoy restaurant in London recently was embowered in a massive array of daffodils especially imported from the islands of Scilly, which are situated off the Cornish coast. At this season tons of blooms from the bulb farms are being imported into Great Britain. Some years ago when it was found that the islanders were being beaten by more favored competitors in the culture of early potatoes, the culture of bulbs was introduced. Many acres are set apart for daffodils and narcissi; during February and March, the islanders are kept busy in harvesting the crops, and sending boxes of blooms to compete against the early supplies from the south of France and the Channel Islands. The flower farms have brought prosperity to the islands, but there is a grievance owing to, it is alleged, the foreigners being able to consign their supplies to Britain at a more favorable rate than the Scillonians.

A Spring Show

There was a fine display, with a large attendance of visitors, at the show of the Royal Horticultural Society at Westminster to-day. Messrs. Wm. Cutbush & Son of Highgate, London, who have made a specialty of carnations, showed a new scarlet one, named General Kuroki which received an award of merit. It is an attractive bloom, with long stems, and a serviceable calyx. Other varieties shown in good form by the same firm were Enchantress, Mrs. Thomas Lawson and Marcia. The fine array of roses by Mr. George Mount of Canterbury, Kent, attracted attention, among the varieties being Mrs. John Laing, Mrs. R. G. Sharman Crawford, Capt. Hayward, W. J. Grant, Catherine Mermet, Liberty, and Niphetos. Considering the lateness of the season, Messrs. Cannell & Son of Swanley, were able to make a very meritorious display of 122 varieties of apples grown in Kent, "the garden of England." Mr. Cannell, the veteran head of the firm, not only grows good fruit but he is a strong advocate of its consumption for hygienic purposes. He experiences the best of health, and this he attributes to his being a vegetarian, an abstainer from intoxicants, and a non-smoker. As a florist, Mr. Cannell has achieved fame in the dahlia world, being one of the founders of the National Society interested in that flower, and having brought out many noted dahlias, chiefly of the cactus variety.

W. H. Adsett.

London, England, March 14, 1905.

Ferns for Every-Day Use

POLYPODIUM

Polypodium is the most extensive genus in the fern family. Nicholson, in his dictionary, says there are more than four hundred and fifty species known. They are divided into two very distinct sections; the first one — Phegoptertis — is the smallest, has underground and generally creeping rootstocks with deciduous fronds and much related to some Nephrodiums; it is sometimes very hard to tell the difference between one and the other. The other section is subdivided into other sub-sections, all evergreen, much of them found growing on tree trunks or covering rocks, and having their rootstock on the top of the soil or decayed matter on which they grow.

The fruit dots are round or oval, without indusium, variously set on each side of the stalks or midribs according to the section.

The deciduous species grow best in light soil, fibrous loam, leaf mould and sand. The evergreen epiphytal species like good fibrous peat or half-decayed leaf-mould with a little loam. When grown in pots, where they make nice specimens, shallow pots with good drainage are to be used, and the plants are set high, and the soil can be covered with sphagnum for the rootstocks to creep in; but their natural place is in the conservatory where they can be grown in cork bark on old tree trunks, on rocks or in baskets, where they show to advantage the creeping habit of their rootstocks.

They all can be propagated by division or by spores; from spores they grow nicer plants on account of the graduation of the strength of the fronds.

Phegopteris

P. trichoides from India, has fronds very long, with long stalk, scaly at the base and hairy at the top; the fronds are finely divided, of a light green color and resembles our felix fœmina.

P. decussatum from West Indies, P. Pleroideum from Columbia and Canada, P. punctatum from New Zealand and Australia, P. splendidum from Brazil, P. Wogelii from Fernando Po, and P. undulatum from Sandwich Islands, all have fronds from two to five feet long, broad and very ornamental, but seldom seen in cultivation.



Polypodium pectinatum



(Campyloneuron) Polypodium Angustifolium

Among the evergreen species some of the sub-sections are the following: P. pectinatum from West Indies and Central America, is a good fern which varies much in size and appearance; the fronds are generally erect, sometimes pendant, from one to two feet long and two to five inches broad; they are simply pinnate; the pinnæ set near together, of thin texture and dark green color.

P. Phyllitidis from Florida and West Indies has some resemblance to the "bird's nest" fern, only it does not grow in a crown. The slightly undulated fronds from one to two feet long and one to three inches broad, are entire, tapering on both sides, with a short stalk, and sometimes covered with little white dots on the upper surface. The fruit dots which are very apparent, are set in rows on each side of the side veins, extending from the midrib to the edge of the frond.

P. vulgare, although a hardy fern which grows wild over rocks and on the foot of trees all over the United States and Europe, has some beautiful forms like the Welsh Polypody and others, which do better cultivated in pots and under glass, where they make fine plants. Some of the best are:

P. v. cambricum, P. v. elegantissimum, P. v. trichomanoides, P. v. pulcherrimum, P. v. multifido-cristatum and others, all feathery and fringed.

Campyloneuron

P. angustifolium from West Indies and South America has the fronds long, undivided, and very narrow, pointed at the top and tapering at the base to a short stalk; they are of heavy texture and dark, glossy green color.

P. Fendlerii from Central America, P. lucidum from Central America, P. repens and from West Indies and South America are all of the same style, with undivided fronds from six to twenty-four inches long, narrow, tapering on both sides, of a strong, glossy green texture.

Polypodium Phyllitidis

(To be continued.)

HORTICULTURE

AN ILLUSTRATED JOURNAL
DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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HORTICULTURE PUBLISHING CO.
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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Now for Easter, hoping it will be just cool enough, just warm enough, just right for everybody.

Blooming pot-roses will be among the best Easter sellers this year and one of the leaders will undoubtedly be the "Baby Rambler."

Violet plants, like violet flowers, should be sold on the day they are received from the greenhouse or frame, ere they "haste to swift decay."

Our advertisement columns in this issue give evidence that, despite the most unprofitable spring season on record, the cut flower commission men have not lost courage. The distribution of the vast quantities of flowers used for the Easter festival would be an impossibility without this agency, which by energy and industry has widened the market for the grower and brought the remote dealer in direct touch with the sources of supply. The commission dealer is the producer's best friend and prosperity for one means prosperity for both.

The retail store man is not yet speeding at the rate of the plant grower, still if blessed with a due measure of foresight he can find plenty to occupy every moment of spare time in the Easter preparation. He will set his store in order and see to it that every requisite for the approaching days of hustle and bustle is conveniently at hand. He will have ordered all needed material well in advance and made provision for their careful handling and storage until required, bearing constantly in mind the truth that poor stock is always dear at any price.

The Easter plant grower will have no time now to read long-winded treatises on cultural subjects, but there are a few things that may be handed out to him, between jumps, that may benefit and cannot do him harm. Most important after the growing of good plants is proper handling and packing for shipment, so that, so far as lies in his power, satisfaction may be assured to his customer. In the meantime his reputation will benefit and the plant business in general will be profited by a systematic "hardening off," under reduced temperature, of everything he is to send out.

The cut flower, as an Easter staple, is just about what its producer makes it. If it is ever to regain its popularity the reinstatement must come through the universal discontinuance of the policy and practices that checked its prosperity. That many growers and dealers are ready to abandon the "hoarding up" system which has done more to bring store flowers into disrepute than all other agencies combined, is unquestioned, but little benefit can beexpected from partial reform; the regeneration must be radical and sweeping before general confidence in the holiday flower can be restored. Let the flower-grower who adheres to absolutely fresh stock go to the wholesale markets on the days preceding Easter and take a hand in helping to expose those who are recklessly compromising his business. Conditions this year are likely to furnish a good opening for missionary work in this direction.

"Watch your opportunity" is good advice for the advertiser. The Easter flower dealers who have taken advantage of the opportunity offered by Horticulture's popularity and wide circulation among the most progressive and intelligent florists, to bring their Easter announcements to the eye of responsible buyers, in this issue, have, we believe, chosen wisely and we appeal to our readers to demonstrate that the time and the medium were well selected, by ordering freely of such material as they may need from these enterprising houses. Most of them are well known throughout the land, of good repute, and proven reliability, and we take much pleasure in recommending them. Anything and everything that can possibly be required in the conduct of a successful Easter business can be secured at best figures without going outside the advertisers in this issue of Horticulture.

Do you like Horticulture? Then order it for your employees; tell your friends about it; or send us their names and we will mail sample copies to them. The larger our subscription list, the better paper we can afford to give you. The interests of Horticulture and its Readers are mutual.

All subscriptions received on and after April 15, up to July 1, 1905, will be dated to run till July 1, 1906. Thus those who subscribe at once will **receive Horticulture for fourteen and one-half months for one dollar.**

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

Dear Sirs, — Please discontinue my advertisement, as I have sold out all the stock. The large number of replies I received testifies to the value of your paper as an advertising medium.

Yours,

F. E. Palmer.

It is a pleasure for us to say that the results from our advertising in Horticulture have been eminently satisfactory, not only in the number of inquiries received, but in direct sales as well. We congratulate you upon the strong showing you are making,

Very truly,

The Dingee & Conard Co.

West Grove, Pa.

After Adjournment

The Lewis and Clark Journal promises "pansies as large as sunflowers" — thousands of them — at the coming exposition in Portland, Oregon. No inducement in that — not half big enough as we estimate that land of wonders. Make them big as cartwheels, gentlemen, and we'll try to run over and see them.

The much-discussed sinuous flower beds in Copley Square, Boston, are to be obliterated, and the whole area turned into an unbroken lawn this spring. We shall like it better. But, just as an experiment, we would like to see in the center one of those noble sub-tropical beds of musas, cannas, and pennisetum such as adorn the botanical garden at Washington, D. C., each year.

The delight afforded by a humble flower in a window is beautifully expressed by H. C. Bunner:

A pitcher of Mignonette
In a tenement's highest casement;
Queer sort of a flower-pot — yet
That pitcher of Mignonette
Is a garden in heaven set
To the little sick child in the basement —
The pitcher of Mignonette
In the tenement's highest casement.

WHOLESOME CHESTNUTS

Don't be in a hurry uncovering hydrangeas; they will not stand frost and we may have a little of that yet.

If you intend putting in cutings of dahlias, do it without delay.

Harden your cauliflowers before you think of putting them in the open ground.

If you haven't started your tuberous begonias, do so now so that you will not have to rush them.

To prevent curled leaf on peaches, spray with Bordeaux mixture; do it now and after the fruit has set.

Don't move young evergreens for a month yet, but with everything in the deciduous line go ahead.

If you want to divide clumps of herbaceous plants, go at it right away before growth begins, and if you are intending to buy new stock, order now; you will likely get better stock than later after others have had their pick.

The only place for sweet peas now is in the ground. If you put them to bed there early they will greet you later on with smiling faces and in great abundance.

Get your geraniums out into the frames; they will like it better and you will like their appearance better after they are there a little while.

ALL UP FOR NEXT YEAR'S ROSE SHOW

Now that the rose show, which was a grand success, is over, I think it would be a good thing for everyone to start their plans for the next year's show, and try and make it, if possible, a better one — that is, with more entries, especially in the hybrid class. I wish to call the attention of all the young men I have known who worked at the Waban Rose Conservatory since 1887, and those previous to that date, to start now and plan for a good contest in all the classes that will be offered. Go in with the idea of winning, and if beaten by better product take your medicine manfully and give credit to those winning.

In the exhibition just passed, many of the prize winners were men who had worked under Mr. Montgomery — such men as George Harveston, Robert Cameron, William Riggs, William H. Elliott, George Melvin, not forgetting Welch Bros., who so generously gave a good prize. I don't wish to be understood that this is to be a clique, but I think that every man who is in a position to do so, should try to grow something worthy, and thus honor their former employer. There are many such men scattered over this country. When Peary discovers the pole, he may find a Waban man running a place, "heated by some underground hot water system," catering to the natives of that northern climate!

There are vast possibilities which may be brought into action, and resources we havn't yet called upon, which will go far to make a more interesting exhibiton than the one just passed. Now boys, of the Waban University (as P. Welch calls it) get busy; put on your "thinking caps," lay out your work carefully; follow up the minor details all through the year; get other florists and gardeners interested; join the Rose Society, and try to make the next show such that the other sections of the country will have to work hard to even keep up to its standard of excellence. It will please Mr. Montgomery more than winning prizes himself; he will appreciate the honor, and say in his own modest way, "Well done boys, I'm proud of you." Robert T. McGorum.

NEWS NOTES

The stock of Sigmund Geller, bankrupt, dealer in florists' supplies, was sold at auction last week at the store in West 28th Street, New York.

James Gergan, employed in Greenwood Cemetery, Brooklyn, N. Y., fell and sustained a fracture of the leg, April 3. He was taken to Seney Hospital.

The splendid estate of Col. Chas. Pfaff, at Framingham, Mass., has been sold to Richard H. Long. It contains three hundred and twenty-five acres of grounds, fine buildings, and range of greenhouses.

Recent visitors in New York; W. W. Edgar and Mrs. Edgar, Waverley, Mass.; Peter Crowe, Mrs. Crowe, and Mrs. Crowe, Jr., and daughters; J. C. Spencer, Utica, N. Y.; Phil. Breitmeyer, Detroit; W. H. Elliott, Brighton, Mass.

OBITUARY

Charles O. Saunders, a well-known florist of Everett, Mass., died on April 6, aged fifty-nine years. He conducted the Belmont Hill Nursery and had served as park commissioner and chairman of the Board of Health.

E. H. Howland, of Holyoke, Mass., died on the morning of April 11, aged 54 years. He was born in India, his parents being missionaries. He was a member of the '74 class at Amherst.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Anderson & Williams of Waltham are bringing in some fine plants of American Beauty roses in seven and eight-inch pots. These plants have flowered in beds for two years, and after being cut back and well ripened were potted into sevens or eights and started in gentle heat in December. They have from ten to twenty-five flowers to a plant, and sell readily. Mr. Anderson tells me that he has a lot of Crimson Ramblers which were started in December that he expects to dispose of at Easter.

Robert Montgomery, of Natick, has offered the Flower Market base-ball teams the use of a large field for their games this summer. I am pleased to see that the idea of more sociability among the florists is meeting with marked approval in many quarters. It is not too early to begin to plan some general outing for the coming summer. Let me have your suggestions, and we will try to get together and decide upon some scheme to insure a social day or two.

Thos. F. Matthews.

EASTER PLANTS FOR BOSTON

The annual Easter pilgrimage to W. W. Edgar's plant houses was made on Wednesday, April 12. As near to perfection as cultural knowledge and a year's assiduous attention can make them, those thousands of gorgeous azaleas, rambler roses, acacias, genistas, lilacs, and astilbes are a sight to arouse the highest enthusiasm in the plant lover, and an object lesson better than books for him who would aspire to attain eminence in the art of plant culture. The lily houses, too, are a sight worth going far to see and are an impressive example of what is possible with properly ripened Japan bulbs, properly handled.

There are lots of growers, some big ones included, who would open their eyes wide, and go home with expanded ideas of the possibilities in Easter plant growing after a visit to this notable display. Mr. Edgar has nothing in particular in the way of novelties this season — unless indeed we class as such a bench of lusty candidum lilies, a rarity calculated to awaken lively recollections in any old-timer. Double white lilac, Mme. Lemoine, is there in abundance, flowers beautiful, but not profuse enough, and Mr. Edgar places Marie Legrange at the top of the list for forcing purposes.

Long ranks of closely packed tomato plants, three or four feet high, in big pots, stand ready to take possession of the benches as soon as the Easter beauties have gone out into the cold, cold world to feel for the first time in their lives the pangs of exposure and neglect. Dormant astilbes also await the vacated room, and in the unusually short interim this year will have to go through some strenuous experiences in order to be in acceptable shape for the next big floral festival — Memorial Day.

The frontispiece of last weeks issue of Horticulture, Lilium philippense, excited much favorable comment in Newport, and the many friends of the introducers, are anxiously awaiting the arrival of the time when this lily will be disseminated. That the Farquhars stand sponsors for this new introduction is a sufficient guarantee of its merit.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The annual meeting of the Executive Board was held at the New Willard Hotel, Washington, D. C., on Tuesday, Wednesday and Thursday, April 4–5–6, 1905. In the absence of President J. C. Vaughan, Vice-president J. R. Freeman occupied the chair. There were present also Ex-president Phil. Breitmeyer; Treasurer H. B. Beatty; Secretary Wm. J. Stewart; Directors H. M. Altick, Theo. Wirth, W. H. Elliott, and E. V. Hallock; Ex-presidents Wm. R. Smith, and W. F. Gude; Professor Galloway of the U. S. Department of Agriculture, and Secretary Moseley of the Interstate Commerce Committee.

The report of the secretary indicated a continuous prosperous condition in all departments, and the treasurer's report showed the largest cash balance on hand in the Society's history. Various committee reports were presented and approved. Professor Galloway addressed the Board on behalf of the Department of Agriculture, offering the coöperation of the Department in the arrangement for the entertainment and instruction of the Society at the convention next August.

The program for the convention, so far as completed, provides for the customary opening exercises on the afternoon of Tuesday, August 15, and president's reception in the evening. Nomination and election of officers and other routine work of the Society will share the morning sessions of Wednesday and Thursday, with several papers on subjects of interest, and the evenings of these two days will be devoted to stereoptican lectures under the auspices of the Department of Agriculture. Among the papers presented will be one by Oglesby Paul, of Philadelphia, on "Landscape Gardening" or a kindred subject, one on "Helps to Floriculture in the South and Southwest" (not yet assigned) and on "American Bulb Growing" by Prof. A. J. Pieters. In addition a competiton is to be arranged for, and prizes will be offered by Treasurer Beatty for the best essays on the subject of "The Ideal Employer."

The consensus of opinion in the Board favored a policy of broader publicity in the Society's work, closer affiliation with the daily newspapers, and for fuller press reports than heretofore, and the dissemination of general horticultural information in every community of the country, particularly through the medium of the public schools. A bronze medal was appropriated to be placed at the disposal of Miss S. B. Sipe, for award to the school children of the city of Washington for the encouragement of horticulture.

Favorable action was taken towards the appointment of a committee to report on the feasibility of preparing a concise and practical text book for use by Boards of Education, to be disseminated through the various Florists' Clubs.

The National Rifles Armory on G street, N. W., between 9th and 10th streets, was selected for the exhibition, the upper and lower halls to be used for this purpose, and the proffer of Carroll Hall, adjoining, was accepted for the use of the Society for its meetings. Should the exhibition overflow the accommodations in the Armory, an additional hall is available in Masonic Building.

A fine special exhibit will be made by the Department of Agriculture, and a silver medal will be offered for the best display of cut flowers in vases. It was voted that the exhibition be allowed to remain open during the sessions of the Society, as an experiment. George H. Cooke, recommended by the Washington Florists' Club, was duly appointed superintendent of the exhibition.

Wednesday afternoon was set apart for the bowling tournament, and Messrs. Phil. Hauswirth and John Westcott were appointed to act with the local sporting committee. The bowling alleys selected are located on 8th and E streets.

The following final resulotions were unanimously adopted:

"We, the members of the Executive Committee of the Society of American Florists' and Ornamental Horticulturists, in meeting assembled, regret the circumstances that have made necessary the absence of our President, J. C. Vaughan, and that we could not avail ourselves of his experience and wisdom in the deliberations of this Committee.

We wish to state, however, that his place was most ably and satisfactorily filled by our Vice-president, J. R. Freeman, and we hereby wish to express to him our appreciation of his many kindnesses while in and out of the Chair.

We wish to extend our heartfelt thanks to each and every member of the Washington Florists' Club, and especially to the accomplished President, W. F. Gude, for their untiring kindness and courtesies, and particularly for the delightful entertainment with its most beautiful decorations.

And further to the management of the New Willard Hotel for the courtesies, and to the daily press for their full and accurate reports of our meetings.

Finally, the Committee is greatly impressed with the great work the Hon. James Wilson, Secretary of Agricutlure, is doing along the lines of horticulture, and the willingness of this department to coöperate with this Society in every possible manner; and for the individual interest shown by Prof. B. T. Galloway during our stay."

WM. J. STEWART, *Secretary.*

BANQUET AT WASHINGTON

On Wednesday evening, April 5, the Executive Board of the S. A. F. was given a banquet by the Washington Florists' Club, at the New Willard Hotel. Many of the bright lights of Washington horticulture were present, and the speeches made by the visitors and the local representatives were replete with good things. Every one participated, the affair lasting until midnight. The floral decorations of the table, the work of J. H. Small & Sons, were exquisite.

BOTANICAL SOCIETY OF PENNSYLVANIA

The first field day of the season for the above society took place Saturday afternoon, April 8th. Ogelsby Paul acted as cicerone and piloted the party to the Widener estate at Ogontz. William Kleinhans, the superintendent, gave a hearty welcome and a pleasant afternoon was spent inspecting the grounds and conservatories. This is one of the largest and most imposing country seats in the vicinity of Philadelphia and a good example of what Lord Bacon meant when he spoke of building stately and gardening finely. The landscape gardener whose duty it is to realize for

> " . . . wealth and pride
> How to obtain their wish —
> The world's applause"

made a good job of this estate and all lovers of the tasteful and picturesque are under obligations to him.

NEW YORK FLORISTS' CLUB

The meeting on Monday evening, April 10, was a very successful one from every standpoint, — forty-five present. President Traendly was in his happiest vein, and the exhibition of Easter plants was very creditable. Chairman Nugent was kept busy carrying turkey and opening "White Rock."

The Question Box has turned out to be the most interesting feature now of the meetings. It was one of the longest sessions in the history of the Club, and one of the questions: "What is the most valuable plant introduced in the memory of any member of the Club?" went over to the May meeting.

The following is the list of exhibits and awards: —

AWARDS

Hinode Florist Co. — Crimson Rambler, award of excellence for culture. Thos. DeVoy & Son. — Telegraph Geranium, award of merit for culture. Louis Dupuy. — Collection of ericas, Acacia Mimosa cordata, dwarf Crimson Ramblers, marguerites, standard double lilac, blue hydrangea, award of excellence for culture; balance of exhibit, award of merit for culture; Crassula hybrida coccinea, certificate of merit. Pankok & Schumacker. — Bougainvillea Sanderi, award of excellence for culture; Epiphyllum, award of merit for culture.

All these plants exhibited were grand in every way. This was especially so of the ramblers of the Hinode Florist Co. and the bougainvillea of Pankok & Schumacker, and the new and other plants of Louis Dupuy were excellent. Louis Dupuy gave an interesting talk on his plants, which was very much appreciated.

C. W. Ward was unable to be present, but sent a letter in reply to the question of why the carnation growers were more progressive than the rose growers. This brought up a heated discussion, the rose growers being championed by Messrs. Harry O. May, Butterfield, and others, and the general discussion being taken up by Messrs. Reimels, James T. Scott, O'Mara, Butterfield, Wallace, Wheeler, May, and Lenker.

The question: "Is Floriculture more advanced in Europe than in the United States?" brought out a splendid paper from James T. Scott, and both Mr. Ward and Mr. Scott received the thanks of the Club.

President Traendly brought up the matter of the exclusion of children between 12 and 16 from the greenhouses in Prospect Park, and Messrs. John Reimels, S. S. Butterfield, and A. H. Langjahr was appointed a committee to protest to the park commissioner of the borough of Brooklyn.

The following questions were taken from the Question Box to be answered at the May meeting: —

"What is the essential qualification of a judge of plants and cut flowers?" — Alex. Wallace.

"Are street merchants and peddlers beneficial or detrimental to the florist business, from growers', wholesalers', and retailers' standpoint?" — L. W. Wheeler.

The Board of Trustees offered an amendment to the By-Laws raising the secretary's salary to $250 per year, he to collect all moneys from members and turn over to the treasurer. Same will be acted upon at May meeting.

At the May meeting there will be an exhibit of spring stock and bedding plants, and the same will be under the personal direction of John Birnie.

The following rules governing the exhibition of novelties, etc., submitted by the Committee of Award, went into effect at this meeting.

RULE 1. The Committee requires that the initial exhibit of new varieties of flowers or plants be made at a regular meeting of this Club, and the exhibitor

shall notify the Secretary at least ten days prior to the meeting at which he proposes to exhibit.

RULE 2. Anyone showing a novelty with the intention of obtaining the Club's endorsement in any way the committee may recommend shall conform to the rules laid down by them for their guidance as herein stated.

RULE 3. Any exhibit of a novelty in cut flowers at a regular meeting, if considered of sufficient merit by the committee, they, or at least three of them, shall be empowered to visit the place where it is growing, and if, after careful examination of the same, they deem it of sufficient merit, they shall award accordingly; but if, in their judgment, it appears advisable to defer the same till as second visit shall be made, they shall be at liberty to so decide.

RULE 4. The highest award for flowers or plants shall be the Silver Medal of the Club, the next the Certificate of the Club, the next "Highly Commended," the next "Honorable Mention."

RULE 5. In judging Carnation flowers at the exhibition in the Club's meeting room, the scale of points adopted by the American Carnation Society shall be adopted, as follows:

Color, 25	Calyx, 5	Form, 15
Size, 20	Stem, 20	Fragrance, 5
	Substance, 10	

Should the variety judged score 85 points or more a preliminary certificate shall be granted to it. In judging the variety where it is growing, the following scale shall be used:

Condition, 15	Size, 15	Substance, 5
Productiveness, 15	Calyx, 5	Form, 10
Color, 15	Stem, 15	Fragrance, 5

Should the variety score 85 points or more, the final award shall then be made. If it fail to score 85 points or more, the preliminary certificate shall be withdrawn and public notice given of said withdrawal.

RULE 6. In judging Rose flowers at the exhibition in the Club's meeting room, the scale of points adopted by the American Rose Society shall be used, as follows:

Size, 10	Form, 15	Fragrance, 5
Color, 20	Substance, 10	Distinctiveness, 10
Stem, 15	Foliage, 15	

In judging the variety where it is growing, the following scale shall be used:

Condition, 15	Color, 15	Substance, 10
Productiveness, 15	Stem, 10	Fragrance, 5
Size, 10	Form, 10	Distinctiveness, 10

The stipulations for award on Carnations shall apply also to Roses.

RULE 7. In judging Chrysanthemums at the exhibition in the Club's meeting room, the scale of points adopted by the Chrysanthemum Society shall be used as follows:

COMMERCIAL SCALE	EXHIBITION SCALE
Color, 20	Color, 10
Form, 15	Stem, 10
Fullness, 10	Foliage, 10
Stem, 15	Fullness, 15
Foliage, 15	Form, 15
Substance, 15	Depth, 15
Size, 10	Size, 25

The final award shall be made on Chrysanthemums at the initial exhibition in the Club's meeting room.

RULE 8. When a *new plant*, such as will be grown in pots or in the open ground generally is brought to this Club's meeting, if the committee is sufficiently satisfied as to its distinctive merits and other qualities, they shall be empowered to give final award without further examination.

RULE 9. In judging plants or flowers other than the foregoing, the committee may use a scale of points adopted by a special society covering the exhibit, if any exists; or they may judge them by any other method at their discretion.

RULE 10. All reports of the committee shall be entered in a book kept for said reports; all reports shall be signed by the members making same.

RULE 11. The committee recommends that the expenses necessarily attending the traveling, etc., to examine novelties where they are grown shall be paid by the exhibitor. We further recommend that after the initial exhibit be made in the Club's rooms and the committee requires further investigation, that the party exhibiting such novelty shall be notified by the secretary that if he wishes the committee to go to the place for further examination he must forward the amount in cash to the Secretary of this Club necessary to cover mileage, etc. The chairman of this committee shall first ascertain what such expenses would be and advise the secretary of the amount, and in no case where the money is not sent in advance shall the committee be authorized to make the visit.

RULES COVERING EXHIBITS OF DISSEMINATED VARIETIES

RULE 1. Competitive exhibits of flowers or plants already disseminated shall be judged by the scales governing same as provided in the rules of novelties, excepting Roses. In case of the latter, the following scale shall be used:

Size, 15	Stem, 20	Substance, 15
Color, 20	Form, 15	Foliage, 15

RULE 2. The awards under the rules for disseminated varieties shall be: First, "Award of Excellence for Culture;" Second "Award of Merit for Culture."

RULE 3. All exhibits at Club meetings not embraced in the foregoing shall be judged by a special committee appointed by the presiding officer with the approval of the Club.

RULE 4. Should less than three members of the committee of award appear at a meeting when exhibits are to be judged, the presiding officer shall, with the approval of the Club, appoint others to act temporarily; the power thus granted to expire at the close of the meeting.

SPECIAL

When the committe visits the place where plants or flowers are grown, for the purpose of making final inspection, at least three of the committee must be present before final award is made.

That all notices to visit places where plants or flowers are to be judged shall be sent out by the chairman of the committee of awards.

"WHY ARE CARNATION GROWERS MORE PROGRESSIVE THAN ROSE GROWERS?"

C. W. Ward, at meeting of New York Florists' Club.

I believe that as a class the carnation growers are more liberal, more energetic, and determined to push their flower to the front than are the rose growers. Again, the rose grower has had the advantage of having a certain amount of self conceit owing to the fact that the popularity of the rose has been of long standing, while the carnation grower knew that in order to get a standing he had to get out and hustle and make things ring. Again, the rose grower is working under an average temperature ten degrees higher than is the carnation grower. Now you know that inhabitants of tropical climates are much less energetic than those of temperate climates. The temperature of the carnation house approximates a temperate climate, while the temperature of the rose house approximates a tropical climate, consequently, I consider the rose grower a tropical inhabitant, and the carnation grower a temperate one.

Again, the carnation grower has the advantage of having a better following than has the rose grower, when you consider it from one point of view, and that is that it is more plastic under the hybridizers management, and it is much easier to produce new varietes of carnations than it is to produce new varieties of roses.

Again, the facility with which the general public has accepted the improvement in the carnation, and the promptness with which it has awarded the efforts of the carnation hybridizer has acted as a strong stimulus to the carnation men throughout the country, and infused into them a degree of energy and progressive spirit that has carried them on enthusiastically in their work, and produced the splendid results in increasing business, which has benefited the entire florist trade, grower, commission men and retail dealer alike.

Further than this the deponent saith not.

NASSAU COUNTY, N.Y., HORTICULTURAL SOCIETY

The monthly meeting of this society was held at the Glen Cove greenhouses on the afternoon of April 5th. The attendance was not particularly large, but exhibits were plentiful, nearly every member contributing something. The relating of experiences in the production of the various exhibits brought out many interesting and valuable cultural hints which should bear fruit eventually. A charming vase of that grand red carnation, Robert Craig, kindly furnished by the Cottage Gardens, Queens, N. Y., graced the exhibition table. Special mention was made of a new seedling white carnation raised by Mr. Felix Mense, Glen Cove greenhouses. Mr. Mense has named it Dosoris and, judging from his stock, it is a profuse bloomer and of robust constitution. The flowers are full, well built, and apparently non-bursting. Another seedling carnation, dark pink, was exhibited by Mr. Myers, superintendent for G. R. Sheldon. The flowers were large, full, with highly fringed petals. A beautiful specimen of white cineraria stellata, grown by A. McKenzie, superintendent to Percy Chubb, attracted great attention. The plant measured four feet in diameter and carried an enormous wealth of blossoms. The same gentleman exhibited an interesting dish of Gradus peas, grown under glass. The seed had been sown around December 20th and pods were ready for pulling during the first week in March. It may be mentioned that these peas proved very appetizing to the members present — an inducement to attend, I should say. A standard gardenia, profusely flower-budded and showing the marks of high culture, was exhibited by T. Harrison, superintendent to E. R. Ladew.

It was decided, until further notice, to hold the meetings in the evening.

John F. Johnston.

NEWPORT HORTICULTURAL SOCIETY

A largely attended meeting of the Newport Horticultural Society was held last Wednesday evening, President Sullivan in the chair. The finishing touches were given to the premium schedules. Committees were appointed to make all the arrangements for the exhibitions.

Eight new members were admitted and it is hoped that by the end of the year the roll of members will be larger than it has ever been. Ten new classes were added to the schedule for the rose show to be held in June. These classes are chiefly for specimen plants. One class reads for the best fern; this ought to bring out something worth seeing besides perhaps bringing the several new varieties of nephrolepis grown here into competition.

NEW JERSEY FLORICULTURAL SOCIETY

At the April monthly meeting of the New Jersey Floricultural Society there was the usual display of fine roses, carnations, and orchids from the houses of John Crosby Brown (Peter Duff), Sidney and Austin Colgate (William Read), A. C. Von Gaasbeck (William Bennett), Henry Graves (Edwin Thomas), William Barr (Arthur Bodwell), Charles Hathaway (M. Hornacker). Of chief attraction, however, were the amaryllis Empress of India, grown by Peter Duff, amaryllis Lady of Barouald, a unique pink and white flower, brought by Mr. Barr from Florida in 1888, grown by Arthur W. Bodwell, and the new rose Wellesley, grown by John N. May. A seedling carnation of M. Hornacker's was exhibited for the first time and certificated. The paper of the evening was "Herbaceous Perennials for the Open Border," by William Read, a copy of which was requested for publication in the transactions of the Society and in addition to the usual vote of thanks was given to the essay committee with power to publish.

Joseph B. Davis.

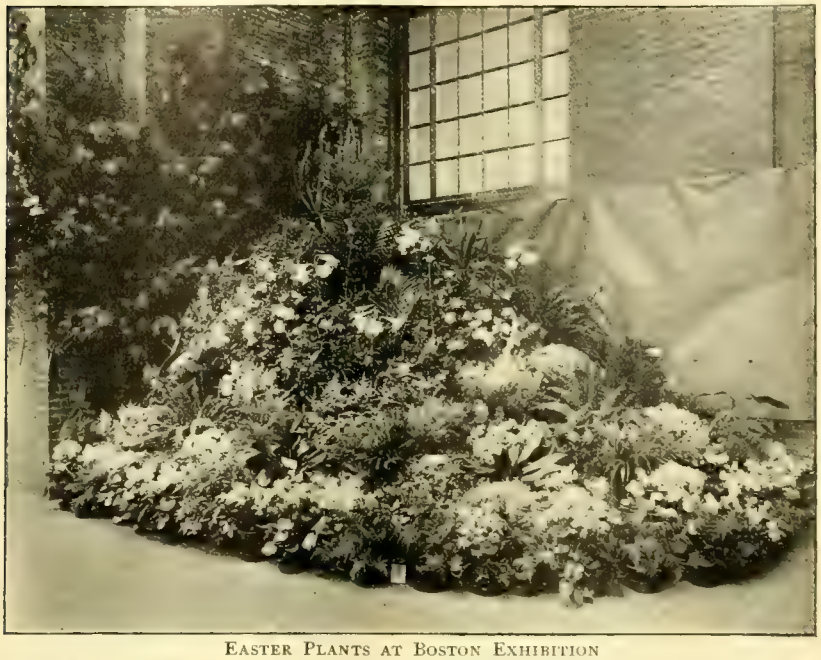
NEW HAVEN COUNTY HORTICULTURE SOCIETY

This society met on April 4, and listened to a very interesting paper on lilies and other bulbs, by Mr. Koehler. A very attractive exhibit of bulbous flowering plants was made.

NOTES

The New London Horticultural Society held its regular meeting at Norwich, Conn., on the evening of April 4, with over one hundred and fifty members and friends in attendance. President Thos. W. Head gave an interesting address on the subject of roses.

At the regular monthly meeting of the



Easter Plants at Boston Exhibition

American Institute, New York City, on Wednesday, April 12, Dr. N. L. Britton, director of the New York Botanical Garden, delivered an interesting lecture, illustrated by lantern slides, his topic being "An Evening with Cacti."

The monthly meeting of the Kentucky Society of Florists', Tuesday night, April 4, was well attended, and proved to be very enthusiastic in many respects. A sweet pea show will be held in June, and a committee has been appointed to look after a building, etc. The large November show will be held November 14 to 18. Messrs. H. Kleinstarink, R. J. Rasmussen, and Adolph J. Koenig, were elected members.

EASTER PLANT QUOTATIONS

Easter flowering plants in different sizes are quoted by growers as follows:

CINCINNATI. — Hydrangeas 6 to 7-in., $1.50 to $2.50; 8 to 10-in., $3.00 to $5.00; lilacs 6 in., $1.00; daisies 6 to 7-in., $1.00; astilbes 6-in., 35 c. to 50 c.; crimson ramblers 6 to 7-in., $1.00 to $2.00; pot roses, hybrids, 6-in., $1.00 to $1.50; tulips, pans, 6 to 7-in., 50 c. to 75 c.; hyacinths, pans, 6-in., 75 c.; daffodils, pans, 6-in., 75 c.; 8 to 10-in., $1.00 to $1.50; lilies 6-in., 75c. to $1.50.

CLEVELAND. — Azaleas $1.00 to $1.75; hydrangeas 4 to 6-in., 25 c. to 35 c.; 6 to 8-in., 50 to 75 c.; lilacs $1.50 to $2.50; rhododendrons 8 to 10-in., $1.50 to $2.50; large specimens $2.50 to $3.50; daisies $1.50 to $3.00; genistas 4 to 5-in., 25 to 50 c.; large, bushy plants 75 c. to $1.50; crimson ramblers, medium 75 c. to $1.50; large and full $2.00 to $3.00; tulips, pans, 3 to 6-in. pan, 3 c. bulb; lily of the valley, 12-in. pan, 35 c. to 50 c.; hyacinths, pans, 12½ c. per bulb; daffodils, 3 to 12-in. pan, 3 c. per bulb; lilies 12½ to 15 c. per flower.

ST. LOUIS. — Azaleas $1.25 to $1.50; hydrangeas 35 c. to $3.00; rhododendrons $1.50 to $2.00; daisies 35 c. to $1.00; genistas 50 c.; acacias $1.50; astilbes 25 c. to 35 c; crimson ramblers $1.50 to $3.00; pot roses 25 c. to 50 c.; lily of valley, pans, $1.50; lilies, 15 c. per flower.

Agents for Horticulture are wanted in every community. Liberal commissions to active workers. Write for information.

CHICAGO EASTER PROSPECTS

Easter lilies will be equal to any demand, however there will be a shortage of long-stem stock. There is some anxiety about the violet crop; the weather will play an important part on the supply of this item. Eastern violets will be the mainstay. An abundance of bulbous stock is in the program, tulips of course taking the lead. The American Beauty is on in full crop, the long-stem grades particularly plentiful. Brides and Bridesmaids hereabouts are of finest quality; the cut will be at its height for Easter. Carnations are somewhat uncertain for large quantities in high grades.

A last reminder to florists wishing to transfer retail orders for Chicago delivery. H. E. Klunder, 33 State street is a graduate from 5th avenue, New York. This up-to-date store is the Chicago house for many leading relailers of New York, Boston, and Philadelphia.

Central Floral Co., 105 Wabash avenue, are leaders for out-of-town deliveries and their exchange list includes the best retailers from all sections of the country. Weilland & Risch's rose crop will just be right for Easter and is up to the usual high standard of this progressive firm.

Wietor Bros., 51 Wabash avenue, have a number of special Easter novelties and excellent stock of roses, carnations, and lilies.

Roses, carnations, lilies, and bulbous stock, offered by Sinner Bros. are so well grown as to deserve comment. This firm enjoys the largest shipping trade amongst the growers on the flower growers' market.

A. L. Randall Co.'s head-liners are white and purple lilac, fancy Murillo tulips, New York violets, and selected Harrisii lilies.

Besides a large Easter crop from numerous consignors, J. A. Budlong's own extensive range will furnish excellent Beauty, Bride and Bridesmaid roses, carnations of finest quality and extra long-stemmed Harrisii lilies.

At Peter Reinberg's million square feet, the entire crop is in for Easter. Their finish on Madam Abel Chatenay, the queen of Easter roses, and Uncle John, the improved Golden Gate, is beyond equal.

The Chicago Carnation Co. at their city salesroom, will have Lady Bountiful, White Lawson, Dorothy Whitney, and the great Cardinal carnations.

NOVELTIES

Besides orchids C. W. McKellar, the western orchid king, will supply white violets and gardenias.

English wallflower, outdoor lilac, and trailing arbutus are the novelties at E. H. Hunt's.

Stollery Bros.' novelty tulip, "Stollery's Special," is a fine double pink, somewhat darker than Salvator Rose. This grand variety which is grown with 20 to 24 inch stems for Easter, is pronounced by experts the finest they had ever seen.

The case of James Donovan, of Newport, against Mrs. Jacobs for damages for injuries sustained by him in falling from a tree, is to be tried in the United States Court, as Mrs. Jacobs is not a citizen of Rhode Island.



Easter Plants at Boston Exhibition

STREET AND WAYSIDE PLANTING

Read before the North Shore Horticultural Society by J. A. Pettigrew, March 17, 1905

[Continued from last week's issue]

What to plant for street trees, and how to plant them, are important questions, on the answers to which depend much of the success in planting for street embellishment,

Of suitable trees we have an abundance from which to choose. I will enumerate a few that I consider most fitted for the purpose:

First and foremost comes the American elm — a grand tree of vigorous growth. It must have room to develop, and a rich soil, fairly moist. A good tree for wide city streets, and without an equal for wayside planting.

The European elm (Ulmus campestris) is a noble tree. It has not the graceful, pendulous habit of the American elm, yet it possesses in its columnar trunk, a stately grandeur hardly equalled by any other tree. It thrives well under adverse conditions. As a sidewalk tree it has many valuable qualities, conspicuous among which is the persistency of its rich, green leaves, lasting, as they do, until late in the autumn. In some seasons its summer growth does not become sufficiently ripened to stand the winters in this latitude; yet this trouble is not so serious as to prevent its use for any situation where shade trees can be grown. It loves good soil.

The horse chestnut (Æsculus hippocastanum) is a tree from Europe. It grows very freely and gives dense shade, and is a popular favorite on account of the beauty of its flowers in the early summer. Its foliage ripens and falls early in the autumn. It is a suitable tree for city streets.

The soft maple (Acer dasycarpum) is a fine tree for wide streets or waysides, where good soil is abundant. It requires space and sunlight to get the best results. It is reputed to be easily injured by storms on account of weakness of fibre; this occurs only when it is grown under crowded conditions.

The American ash (Fraxinus Americana) is an adaptable tree. It grows fairly well as a sidewalk tree, but it is not so desirable as many others, on account of the late leaving-out and early ripening of its foliage. On poor soil, and in dry localities, it is apt to be attacked by borers and the scale insect. In rich soil, its growth is rapid, producing a picturesque tree.

The buttonwood, or sycamore (Platanus occidentalis), is a lofty, quick-growing tree, but not to be recommended for planting in this district, on account of its liability to be infested with fungi, which blacken the leaves. Its near relation, the oriental sycamore, resembles it greatly in appearance, although a little more compact. This species is much valued south of this latitude.

The maidenhair-tree (Ginkgo biloba) is from Japan. This tree has not been used as a street tree, to my knowledge, except in Washington, where two streets are planted with it, and where it has proved most satisfactory. In good soil it grows rapidly, and it seems to have no insect enemies. It forms a handsome avenue, as can be seen on the Agricultural Building grounds in Washington, or on Pierce street, where the planting before-mentioned has been done. Boston and vicinity probably is the northern limit of its hardiness, or, rather, I should say, of its free growth. Fine trees of this species can be seen in the Public Garden, and at Mt. Auburn Cemetery.

The hard or sugar maple (Acer saccharinum) does not make a good city tree. It is impatient of rough treatment; paved sidewalks and paved streets are fatal to it. It is, however, a good tree for suburban conditions, or for a country wayside tree. It is one of the handsomest of our North American trees. This tree will adapt itself to a thin soil.

The Norway maple (Acer platanoides) is an introduction from Central Europe. It forms a rather wide-spreading, handsome top, with a wealth of large leaves, forming a dense shade. It thrives fairly well as a city sidewalk tree; but, on account of its width of spread, it is only suitable for wide streets. As a wayside tree it hardly can be surpassed.

The sycamore maple (Acer psuedo platanus), also from Europe, is a wide-spreading tree, with large, somewhat leathery leaves. It is a noble tree in its native habitat, but does not take kindly to the United States. It is subject to borers and is not to be recommended.

The American beech (Fagus ferruginea) is one of the most ornamental of American trees, but, on account of its low-branching habit in the open, and its surface rooting propensity, it is not adapted for city planting. This tree loves too well the soft, leafy mulch of its native woods to bear transplanting to the heated sidewalks.

The silver poplar (Populus alba), introduced from Europe, is one of the best trees for hard conditions. In smoky, dusty, and thickly populated localities, or in poor soil, it will exist and make a brave show. By many it is esteemed an ugly tree. The poplar trees planted (I have been informed by Strauch, the originator of the lawn treatment of cemeteries) in Cincinnati, however, would convince anyone to the contrary. Or, without going further east than Boston, one could have found in Maverick square, two fine specimens until two years ago, when they were removed to make way for the new tunnel entrance. This tree has a disagreeable habit of suckering.

The American linden (Tilia Americana) also is a tree that will accommodate itself fairly well to street life, provided it is given good soil, and is protected from the tussock moth, to whom it seems to be a favorite food plant. As a wayside tree, it is well adapted, being of quick growth and of handsome proportions.

The European linden (Tilia vulgaris), as its name indicates, is from Europe, and has a well-deserved reputation as a fine shade tree. Planted in good soil, it will grow under very crowded conditions of street life. At South Boston it can be found growing in brick-paved sidewalks, and persistently putting forth leaves each spring, which are as persistently eaten off by the tussock moth caterpillar. It forms a tree of stately growth, holding its leaves well into the fall; while, in early summer, with its near relative, the American linden, its flowers charge the air with a delicious perfume.

The tree of Heaven (Ailantus grandulosa). This is a tree of the tenements. No city conditions, be they ever so hard, seem to discourage its growth altogether. It can be found on Beacon Hill, in narrow courtyards, throwing up its handsome foliage to the housetops; and in many parts of Boston it can be found in corners by the stoop, thriving equally well. Apparently it has not been used as a street tree in Boston, probably from the reputation which male flowers have of emitting a disagreeable odor. I have lived on Long Island, where the Ailantus is naturalized, and where some of the finest street trees are of this kind, and I have never been able to detect any odor, unless I placed the flowers to my nostrils. In rich soils there might be kill-back in winter, from under-ripened wood; but, in poor soils, I feel sure, this trouble would not occur. I am confident that no mistake would be made in planting this tree where hard conditions exist.

The white willow (Salix alba), introduced from Europe, was, undoubtedly, a favorite with the early settlers, as fine trees are to be found throughout the coast of New England. The variety cœrulea is the one most suited, I think, for street planting. It is not particular as to soil, and, if a little care is given to the training-up of a leader, it forms a handsome tree. The willow does not lend itself to neat and precise or formal work. Its value as a street tree lies in its adaptability to adverse conditions, its early budding forth in spring, and in its holding its bright-shining green leaves until late in the fall.

The tulip tree (Liriodendron tulipifera) is another good tree for suburban and wayside planting. It is impatient of restraint or hard usage; but, under proper conditions, it is one of the finest trees of the forest.

The red oak (Quercus rubra) and the scarlet oak (Quercus coccinea) are both grand shade trees for the streets in suburban districts, or for the wayside. The prevalent notion has been that these trees are of slow growth, which accounts for their not having been used for street planting. This idea is erroneous, especially as regards the red oak, which, I think, will outstrip a hard maple in growth. On the Boston parkways, the red oak has been extensively planted for shade. The growth, since the trees became established, has averaged two feet, each season, and in some of them a growth of from four to six feet has been made in one season. The oak will not thrive under paved street and sidewalk conditions, but no better trees can be planted for roadsides, or even for suburban streets, than the red and scarlet oaks.

The pin oak (Quercus palustris). This oak is a very graceful tree in its young state. Its lower branches drop with a curved sweep to the ground, consequently it should be planted only in such positions as will allow the lower branches to be retained. As a street tree, in ordinary locations, this cannot be done and the most beautiful feature of the tree is thus lost. Without its lower branches, this oak is much inferior in appearance to the red or scarlet oak. It loves moisture, however, and may be utilized on low grounds.

The planting of street trees requires as much care as does their selection. It is not enough to merely dig a hole and crowd the roots into it. Any expectations based on such planting are doomed to end in disappointment. In laying out for street planting, let the first stakes be set at the street crossings. When the abutting streets also are to be planted, place two stakes at each corner, about thirty feet from the point of intersection of the curb line, on each street. Then space off the intervening distance, setting the stakes equally dis-

tant apart, but not less than sixty-five feet, as the shortest distance.

Street trees, generally, are planted too closely together. Sometimes this is done with the intention of cutting out alternate ones, as the growth of the trees require. This, however, is seldom done, and the trees grow up too thickly, thereby overcrowding and injuring each other, destroying also the individual beauty of the trees and the symmetrical arrangement which an avenue of trees should have.

For sanitary and hygienic reasons, streets ought not to be too much shaded. The sun should be permitted to shine on the walks, and on the walls of the houses, in turn, as the earth moves in its course. Glimpses of light and shadow, too, have an æsthetic value, which is worth considering.

Sixty-five feet apart is the minimum distance, I think, at which street trees should be planted. For large-growing trees, as the elm or soft maple, seventy-five feet or one hundred feet apart would be none too much space to allow. Wayside or highway trees need not be set with the same precision as street trees. An irregular planting, conforming, in general, to the surrounding scenery, would be in better harmony. In places, an accentuation of existing groups of trees may be all that is necessary, or, simply, a thinning out of overcrowding trees, or of poor trees which are damaging more valuable ones; for let it be an axiom with the tree planter, who is planting for ornamental effect, never to permit the growth of one tree to injure that of another.

An important matter also in the care of trees is the pruning of all broken or diseased limbs or branches, by cutting the limbs off closely at the bole of the tree, leaving no stumps projecting, which the bark cannot grow over, to carry rot into the tree. Cut off smooth, and paint over the wound with coal tar.

If the soil is good, no preparation for planting is necessary, other than loosening up the ground for each tree for a space of from seven to ten feet in diameter, and from two to three feet in depth. When the soil is poor, not less than ten yards of good soil should be substituted for an equal amount of poor soil excavated from the hole. The same loosening up of the ground should be made.

If planting is worth doing at all, it is worth doing well, for on this depends the well-being of the tree. It is safe to say, if you have $20 to spend on planting a tree, let $19.50 of the amount be spent on the preparation of the ground to receive it. It should be borne in mind that the same conditions which will produce a good hill of corn, will grow trees well, and nothing else will serve.

In the planting of groups or masses of trees for ornamental or woodland effect, the soil should be plowed and subsoil plowed several times. The trees should be planted thickly, always remembering the old gardener's motto: "Plant thickly, but thin quickly." More trees are ruined from crowding than from any other cause. The plantation should be treated precisely at a good farmer would treat a crop of corn. Give clean cultivation. Thick planting gives the advantage of shelter (each tree protects the other), and the further advantage of a greater number of trees from which to select the permanent ones. It also gives the effect of foliage mass the quicker.

These notes are written in the hope that they may help to intensify the interest now manifested in the planting and protection of public trees. The subject is of such importance as to merit the earnest attention of all.

The insect question I have not touched upon. This, however, is so exhaustively covered by our entomologists that no one need work in the dark for want of knowledge of how to exterminate insect pests, or, at least, to hold them in check.

BIBLIOGRAPHIE: FRUTICETUM VILMORINIANUM.

From the Revue Horticole, by Andre.

Translated by J. F. Huss.

We have just received a volume of considerable importance published by Mr. Maurice de Vilmorin, entitled "Fruticetum Vilmorinianum-Catalogue primarius." It is, in fact, the first catalogue of shrubs of 1904 for the collections of Mr. de Vilmorin at his property at Barres, near Nogent-Sur-Vernisson (Loiret).

This is not an arboretum properly. Such a name should be reserved especially for the assembling of trees, like the property at Barres, which contains a real collective nursery, especially rich in evergreens and which has become the property of the State, under the charge of the Forest Department.

The author has placed his principal stress upon the shrubs, as indicated by the name "Fruticetum."

It is well known that Mr. Alphonse Lavallee had established on his property at Segres (Seine-et-Oise) a great collection, a description of which was published in 1877. After his death, this collection was not continued. But Mr. Maurice de Vilmorin, who had already largely developed a very interesting collection at the Barres, has obtained from Mrs. Lavallee the authority to take at Segres all these collections and improvements of the celebrated Lavallee, and has thus added greatly to his already large cultivated collection the nucleus of his increased nursery system. It is now nearly ten years since this plantation was established and it constitutes, to-day, the total material for the recently published catalogues. The usefulness of such a work is indisputable.

It is very important to adjust a correct nomenclature. By giving close scrutiny to questionable synonyms, the best name could be preserved together with the name of the rightful originator, and the inaccuracies which are creeping into many large collections would be avoided. Horticultural nurserymen's catalogues and lists of shrubs could be assured of exact pronunciation and the correct names of plants. Such an enterprise is by no means a small study. It requires a broad thorough knowledge of vegetation; patience, perseverance, a vast correspondence with specialists, the knowledge of several languages, a good information of libraries, and finally, prompt investigation for the classifying of species, and the discussion of their character with comparisons with existing records.

Mr. de Vilmorin has been aided in his delicate task by Mr. D. Bois, Assistant at the Musée de Culture Naturelle. Mr. D. Bois is an expert botanist and well-skilled in the science of plants. It is to his able coöperation that the catalogue of which I speak owes a great amount of descriptive information regarding new and rare species. Accompanying it is a form due to the rare talent of Mme. D. Bois, another artist.

This important catalogue makes a grand volume, 80 of the 234 pages illustrated with numerous and excellent plates. Outside of the Conifers, which are not contained herewith, it constitutes a complete enumeration of the deciduous and evergreen shrubs which are proving hardy to the climate surrounding Paris and Orleanais, with a few interesting species, the hardiness of which has not yet been proved, and which thus far have not been appreciated. It will list over 3,000 species, varieties or hybrids, classified with the greatest care.

Among the new and rare shrubs noted we mention particularly a very interesting series of American shrubs and especially great numbers of cratæguses with many shrubs originally brought from China and from the borders of Thibet, such as Davidia involucrata and Lonicera Thibetica C. Following are some of the species which have not been described heretofore, and which are but little known: Clematis Meyeniana heterophylla, Euptelea Francheti, Decaisnea Fargessii, Berberis sauguinea, B. dictyophylla, Ampelopsis cantoniensis, Prunus tomentosa, P. canescens, Sorbaria assurgens, Rosa soulieana, Cornus foliolosa, Cotoneaster augustifolia, C. alpressa, C. Cullata, C. Francheti, Philadelphus Magdalenæ; Ribes Warsceuiesii, Lonicera dellexicalyx, Osmanthus Delavayi, Corylus Tibetica C.

In the compilation of this work Mr. de Vilmorin has rendered to the botanist and horticulturist a careful and reliable terminology of the shrubs. He is to place at once at the disposition of persons desirous of enlarging their collection or making exchanges, numbers of the species he may own and is at present ready to send on request, branches, grafts, or cuttings, seeds, or young plants obtained from seed. Only the expense of transportation will be charged, as no commercial value is fixed on these plants.

By this generous proceeding Mr. de Vilmorin will be enabled to distribute the species which he has been the first, or one of the first, to introduce into Europe. His relations with such explorers as Abbi Armand, Davis and Delavay, the missionaries Farges and Soulie, and other Lazarits, etc., have afforded him opportunity to enlarge very extensively the importation of plants from these far distant regions, to the great advantage of our gardens.

PITTSBURG DAMAGED BY HAIL

Pittsburg was visited on Monday, April 10, with a fierce hailstorm, which riddled most of the private and commercial establishments. Hail, rain, wind, and lightning conspired to work ruin, and the damage can be but conjectured as yet. It was one of the most severe and disastrous hail storms in the history of the city. Following a rain that accompanied a thunder storm, there was a bombardment with hailstones measuring form one to two inches in diameter; these pelted down with great force, breaking anything of a fragile nature. The damage done by the storm will reach many thousands of dollars. Among the larger losses are the Phipps Conservatory, Schenly Park, 8,000 panes of glass broken; loss to plants and structure about $2.000.00. A. W. Smith, the 6th Avenue florist, suffered the most, two-thirds of his greenhouses being demolished. H. C. Frick's, palm house and show houses were smashed up pretty badly. Alexander Peacock's private conservatory was also a victim. J. B. Murdock's greenhouses were nearly all broken up. In the Allegheny Conservatory they sustained a loss of over 800 panes, and private conservatories and residences in the East End all sustained great damage.

BUSINESS CHANGES

Cohen & Co., Boston, have failed.

Peat & Fanning succeed Evans & Peat at Norwalk, O.

The Graham Nursery Co. has been incorporated at Mechanicsville, Ia.

The Geller Florists' Supply Co. has been incorporated to do business in New York City.

The Worcester Conservatories have opened a retail store at 406 Main street, Worcester, Mass.

N. Masconesotes is the successor of T. D. Masconesotes State street store, Chicago. The north-side branch of the house will be discontinued after April 1.

J. Zech and Mathias Mann have taken the M. Winandy wholesale store at 51 Wabash ave., Chicago. M. Mann is a carnation grower and J. Zech was formerly with E. C. Anling.

John Mackenzie has purchased the greenhouses of W. C. Stickel at North Cambridge, Mass., and will add another house. Mr. Stickel will devote his time entirely to his Lexington establishment hereafter.

Chas. Ed. Grunewald has bought out the interests of his partner and will continue as successor to Roberts & Grunewald at 247 Columbus Ave., New York City. Mr. Roberts will open up business at another location.

Thorburn & Co., New York's old reliable, seem to be doing the greatest seed business in their history. An extra force is on, and business is being rushed day and night, and all orders are only accepted subject to unavoidable delay in filling.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

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SITUATION WANTED. — As working foreman, understands growing roses, carnations, and general stock. Sober and good references, married. Please state wages to B. ALLMOND, 106 Church Street, Winchester, Mass.

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AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts Leading Machines
32 So. MARKET ST., BOSTON
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Quality Seed Bulb Plant **S**

Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street NEW YORK

Plant your advertisements here. It is good ground and will yield famously.

Asparagus Plumosus Nanus Seed

True Stock, Lath House Grown, Now Ready, 40c per 100, $2.00 per 1000

SMILAX SEED. — May and June, 20c oz., $1.00 lb.

SMILAX PLANTS. — Strong Clumps, $10.00 per 1000.

ASPARAGUS PLUMOSUS NANUS PLANTS. — From 3-inch Pots, 50c per 100; from transplanted beds, ready for 4-inch Pots at $6.00 per 100, $50.00 per 1000; from transplanted beds, ready for 5-inch Pots, $10.00 per 100. (Express prepaid.)

E. R. MESERVE
Burnett, California
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Seed Bags

FOR THE TRADE

We manufacture a full line in Manilla, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.

The Brown Bag Filling Machine Co.
Bag Dept. *FITCHBURG, MASS.*
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The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE
Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
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VAUGHAN'S SEED STORE, Chicago and N.Y
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W. W. RAWSON & CO. Arlington Tested SEEDS BOSTON MASS.
RAWSON'S
Arlington Tested
SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
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BULBS
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Tuberoses, Lily of The Valley
Catalogue and Price Lists mailed free
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RAM'S HEAD BRAND SHEEP MANURE
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BURPEE'S SEEDS
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
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PRICES

American Beauties, extra long	per doz.	$5.00
" " 30-inch	"	4.00
" " 24-inch	"	3.00
" " 18-20-inch	"	2.00
" " short	per 100,	$6.00 to 8.00
Liberties, long, select	"	12.00
" medium	"	8.00
Brides and Maids, long, select	"	10.00
" " " good stock	"	6.00 to 8.00
" " " short stems	"	4.00 to 5.00
Carnations, large, fancy	per 100	5.00
" good stock	"	4.00
" common	"	2.00
Longiflorum Lilies	"	15.00
Calla Lilies	"	12.50
Valley, fine	per 100	$3.00
Galax	per 1000	1.00
Adiantum	per 100	1.00
Smilax	"	20.00
Asparagus Sprengeri	per doz.	.35
" Plumosus, sprays	per 100	3.00
" " strings	"	50.00
Ferns, fancy	per 1000	3.00
Narcissus and Romans	per 100	3.00
Violets, double, fancy	"	1.00
" single	"	.35
White Lilac, very fine	per doz.	1.00
Tulips, double	per 100,	$4.00 to 5.00
" single	per 100	3.00

SINNER BROTHERS

58-60 Wabash Ave. CHICAGO

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The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

. . . PRICES . . .

Own root	$ 25 per	100	Grafted	$ 30 per	100
"	55 "	250	"	70 "	250
"	100 "	500	"	130 "	500
"	200 "	1000	"	260 "	1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

JOHN N. MAY, SUMMIT, N. J.

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Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias Dracaenas, Aspidistras, Marantas, Crotons etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers
PERKINS STREET NURSERIES
Roslindale - Boston, Mass.

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It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years.

JOHN SCOTT
Keap St. Greenhouses, Brooklyn, N. Y.

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5,000

Strong Transplanted

LADY CAMPBELL **VIOLETS** $1. per 100 $8. per 1000

Cash with Order

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10,000 KAISERIN

ROOTED CUTTINGS

$15.00 Per 1000

Immediate Delivery

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LIST OF PATENTS

Issued March 14, 1905

785,028. Box Roller or Truck. Byron L. Vore, Vanwert, O.

785,032. Bean-Separating Machine. Otto F. Beythan, Freeland, Mich.

785,055. Means for Preserving and Exhibiting Flowers. Regina R. Spicer, Washington, D. C.

Issued March 21 1905

785,109. Pruning Implement. James M. King, Nebraska City, Neb.

785,475. Fruit-Picker. Isaac Carman, St. Remy, N. Y.

785,616. Process of Burning the Roots of Stumps. William Keywood and Virgil Elmer, Tacoma, Wash.

785,326. Thermostatic Alarm. Charlie C. Palmer, Osceola, Ia.

Issued March 28, 1905

785,748. Fruit-Grader. Edward N. Maull, Crescent City, Fla.

786,002. Fruit-Gatherer. James M. Chritton, Rockyford, Colo., assignor of two-thirds to Charles L. Hushaw and Jose E. Chritton, Rockyford, Colo.

786,091. Fruit-Press. Herman Bollweber, Spokane, Wash.

Easter Plants

A SPECIALTY

AZALEA MME. VAN DER CRUYSEN. A perfect artist's model, as round as an apple, none such in existence in America or anywhere else. Just think! plants with 125 buds and flowers, up to 200 and upwards, 75c., $1.00, $1.25, $1.50, $1.75, and $2.00 each; other varieties, 75c, $1.00, $1.25, and $1.50 each.

Our **SPIRAEA GLADSTONE** are the greatest we have ever handled since in business. A Holland specialist furnished us with extra clumps last fall 6-in. pots 50 to 75c. each: other varieties, such as Floribunda Japonica Blondine, very fine and large, 6-in pots, only $3.00 to $4.00 per dozen. Compacta $2.00 to $3.00 per dozen.

CINERARIA HYBRIDA, a sight of beauty in 100 colors, 6-in. pots, $3.00 to $4.00 per dozen.

HYDRANGEA OTAKSA, 6 to 7-in. pots, 2, 3, 4, 5, 6 heads, 50c. 75c. to $1.00 each.

VON SION DOUBLE-NOSED DAFFODILS, best double Narcissus in existence. full of flowers, 5 to 6-in. pots, 3 in pot, $2.00 to $2.50 per dozen.

TOURNESOL DOUBLE TULIPS, sell on sight, 3 in a 4-in. pot, $1.50 per dozen pots.

GODFREY ASCHMANN

Wholesale Grower and Importer of Pot Plants

Bell Phone Tioga 3669 A

1012 ONTARIO ST., PHILADELPHIA, PA.

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DREER'S HARDY PHLOXES



HARDY PHLOX PANTHEON

We have an immense stock of the following popular varieties of Phloxes, the best of their respective colors, in one-year field-grown plants which were back and are now potted into three-inch pots, in prime condition for planting to give immediate results.

AQUILLON. Bright deep pink, crimson eye.
BRIDESMAID. Pure white, with large crimson eye.
BLANC NAIN. Dwarf pure white.
BOUQUET FLEURI. White, with deep rose eye.
CHAMPS ELYSEE. Fine rich purplish crimson.
ECLAIREUR. Purplish crimson, with light halo, large flowers.
EUGENE DANZENVILLIER. Lilac, with white edge and center.
JEANNE D'ARC. A fine pure white.
MOLIERE. Salmon rose, with deeper eye.
PANTHEON. Deep salmon rose, free and effective.
PROFESSOR SULIEMAN. Bright lilac rose.
SEMIRAMIS. Purplish magenta.

Any of the above varieties 75 cents per dozen; $5.00 per 100; $40.00 per 1000

Scarlet Varieties

COQUELICOT. The most popular of the reds, bright orange scarlet, with carmine eye.
ETNA. Scarlet, with dark crimson eye.

$1.00 per dozen; $8.00 per 100; $70.00 per 1000

We are headquarters for all Hardy Perennial Plants. Trade Catalogue mailed to all Florists.

HENRY A. DREER

714 Chestnut Street **Philadelphia, Pa.**

In writing to advertisers, kindly mention HORTICULTURE

New Creations in Dahlias

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue, mailed free upon request.

L. K. PEACOCK, INC. = = Atco, New Jersey

In writing to advertisers, kindly mention HORTICULTURE

ENGLISH-GROWN ROSES

Fall 1905 delivery: **Hybrid Perpetuals and Teas, Climbers, Ramblers, etc, Manetti Stocks, Hardy RHODODENDRONS** and a full line of **ORNAMENTAL NURSERY STOCKS.** Ask for our trade list, address our American agents:

AUGUST RÖLKER & SONS, 31 Barclay St., New York, or P. O. Box 752

W. FROMOW & SONS, Bagshot, England

MONEY BY "TELEGRAPH"

ORDER NOW

THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. **Will Sell at Sight** off your bench for $3.00 per doz. and give tone to your establishment. Extra strong 2½ in. plants, $15.00 per 100. On sale by the leading houses and

Thos. DeVoy & Son, Poughkeepsie, N. Y.

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Special Offer

Clematis, Lilium Auratums, Glorinias and Begonias

CLEMATIS—2 yrs. old, No. 1

JACKMANII, 2 yrs. old, No. 1, $18.00 per 100, 20 cts. each in smaller quantities. HENRII, 2 yrs. old, No. 1, $18.00 per 100, 20 cts. each in smaller quantities. MME. EDWARD ANDRE, 2 yrs. old, No. 1, $19.00 per 100, 21 cts. each in smaller quantities.

CLEMATIS—2 yrs. old, No. 1 1-2

JACKMANII, 2 yrs. old, No. 1½, $12.00, per 100, 15 cts. for smaller quantities. HENRII, 2 yrs. old, No. 1½, $12.00 per 100. 15 cts. for smaller quantities. MME. EDWARD ANDRE, No. 1½, per 100 $15.00. 17 cts. for smaller quantity.

LILIUM AURATUMS

Sound, medium-sized bulbs, $4.00 per 100, 5 cts each for smaller quantity. Medium to large bulbs, 5.00 per 100, 6 cts. each for smaller quantity.

GLOXINIAS, large sized, in fine condition, in four separate colors. $4.00 per 100, 5 cts. each for smaller quantities.

TUBEROUS-ROOTED BEGONIAS, small blooming bulbs, $1.00 per 100, $3.00 per M.

V. H. HALLOCK & SON, Queens, N. Y.

California Privet Cheap

100,000 well-grown plants, 3 to 4 ft., selected, $4.00 per 100; $25.00 per 1000. 2½ to 3½ ft., 7 or more branches, $2.50 per 100; $17.50 per 1000. 20 to 30 in., 5 or more branches, $2.00 per 100; $13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, $1.50 per 100; $7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

CHAS. BLACK, - HIGHTSTOWN, N. J.

DAHLIAS (Field Grown Clumps)

100 Double Pink, Pompon
100 Double Old Rose (shaded)
600 Double Dark Red

Sell CHEAP for cash (if unsold). Make offer

EBENEZER B. JACKSON 86 Cherry Street RAHWAY, N. J.

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Hardwood Ashes

The best and most lasting fertilizer in the world. For the purest grade use the JOYNT brand. Write for prices and information to

JOHN JOYNT, Lucknow, Ontario, Canada

Reference—Bradstreets' Agency

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AZALEA AMŒNA

of all sizes from $15.00 per 1000 to $150.00 per 100. Ask for price list

SAMUEL C. MOON

THE AZALEA AMŒNA MAN

MORRISVILLE, PA.

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Hardy Roses

OF ALL KINDS

Lucida, Lucida Alba Setigera, Dawsoni Etc.

SEND FOR CATALOGUE AND PRICES

We carry a complete line of fine nursery stock

EASTERN NURSERIES

M. M. DAWSON, Mgr. **JAMAICA PLAIN, MASS.**

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M. H. WALSH Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**

Catalogue describes all the above.

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Cypripediums

ACAULE-PARVIFLORUM-SPECTABILE
LAUREL and AZALEA SHRUBS
SPRUCES - MOUNTAIN ASH - PINES
HARDY FERN ROOTS
SPECIAL PRICES

ARTHUR D. DOWNS, Box 15 LENOX, MASS.

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CALIFORNIA PRIVET

Choice Plants at Lowest Prices

50,000 Extra Fine. Well Branched All sizes of 2 and 3 years old, at just ten per cent less than advertised by others, for cash. Send in your orders with the cash. Packing free. Prompt delivery.

ATLANTIC COAST NURSERIES
Office 606 Fourth Ave., Asbury Park, N. J.

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CARNATIONS

STRONG ROOTED CUTTINGS

We offer first-class stock of the finest varieties

VARIEGATED LAWSON.—This variety which we are introducing this season we are sure will prove to be the very best variegated sort. Pure ivory white with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will outbloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. **$12 per 100, $100 per 1000.**

RED LAWSON.—A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. **$10 per 100, $75 per 1000.**

CARDINAL.—Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations any color, first prize for best 50 scarlet seedlings, Chicago. **$12 per 100, $100 per 1000.**

FIANCEE.—The queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. **$12 per 100, $100 per 1000.**

FRED BURKI.—Recommended as an extra free-blooming white variety and a claimant for popular favor. **$12 per 100, $100 per 1000.**

WHITE LAWSON.—We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outbloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock ready for immediate delivery. **$7 per 100, $60 per 1000.**

LADY BOUNTIFUL.—A magnificent white of last season's introduction. **$6 per 100, $50 per 1000.**

MRS. M. A. PATTEN.—This grand variegated carnation has given splendid satisfaction. **$6 per 100, $50 per 1000.**

DAHEIM.—Dark crimson. Grand stiff stem. Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. **$6 per 100, $50 per 1000.**

ENCHANTRESS.—Freest blooming, bringing highest market prices. In great demand. **$4 per 100, $30 per 1000.**

MRS. THOS. W. LAWSON.—**$3 per 100, $20 per 1000.**

PROSPERITY.—A magnificent fancy carnation. **$3 per 100, $20 per 1000.**

We are now prepared to book orders for 1906, for

The Coming Scarlet Carnation

VICTORY

This is a real bread-and-butter variety. An early, free, and abundant bloomer, with good stem; a magnificent keeper and shipper; flowers of the largest size, commanding the very highest price. This is going to be a money-maker. Orders will be filled in rotation, as received, delivery beginning December next. **$12 per 100, $100 per 1000.**

F. R. PIERSON COMPANY, - - Tarrytown-on-Hudson, New York

WHITE LAWSON

From pots, $7.00 per 100; $60.00 per 1000
From soil, 6.00 " 50.00 "

CHICAGO CARNATION CO.

James Hartshorne, Mgr. - JOLIET, ILL.

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Carnation Cuttings

STRONG AND WELL ROOTED

	Per 100	Per 1000
Queen	*$2.50*	*$20.00*
Queen Louise	*2.00*	*15.00*
Enchantress	*3.00*	*25.00*
Harlowarden	*2.50*	*20.00*
Prosperity, Lawson, Fair Maid	*2.00*	*15.00*

S. J. REUTER

WESTERLY, R. I.

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MY MARYLAND

Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class Certificate of Merit by the American Carnation Society, Lawson Bronze Medal for 100 blooms and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1906. Price $2.50 per doz.; $12 per 100; $100 per 1000. Write us for other new and standard varieties.

H. WEBER & SONS, Oakland, Md.

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THE COTTAGE GARDENS CO.

INCORPORATED

Horticultural Specialties

Ornamental Nursery Stock Peonies Carnations

C. W. WARD, President, J. C. GOWING, Sec'y and Treas. Long Distance Telephone 91R CREEDMOOR

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Surplus Rooted Cuttings

COLEUS, Mixed, 75c per hundred

Good strong cuttings. Try a hundred and work up your own spring stock.

J. A. KEENEY, Monongahela, Pa.

Blue Blooded Stock

READY NOW

Strong Rooted Cuttings

OF THE FOLLOWING:

	Per 100
Flamingo	$6.00
Nelson Fisher	5.50
Mrs. M. A. Patten	5.00
The Bride	5.00
Vesper	4.00
Adonis	4.00
Enchantress	3.00
Prosperity	2.00
Lawson	2.00
Mrs. E. A. Nelson	2.00
Estelle	2.00
Pres. Roosevelt	2.00
Flora Hill	1.50
Queen Louise	1.50
The Queen	1.50
Mrs. Bradt	1.50

Other Stock

	Per 100
FICUS ELASTICA, 4-in. Pots	$22.50
ASP. PLUM. NAN., 3-in. Pots	6.00
BOSTON FERNS, 12-in Pans, $1.50 each	

William C. Smith

61st and Market Sts.
PHILADELPHIA, PA.

Cash with order or satisfactory references.

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CARNATIONS, ROOTED CUTTINGS

Crusader	Per 100	$4.00
Enchantress	"	3.00
Boston Market, Mrs. Nelson	"	1.50
Lawson, Lord, Hill, Scott	"	1.00
Chrysanthemums, rooted cuttings, Opal, Omega, Byron	"	1.25

Des Plaines Floral Co., Des Plaines, Ill.

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STERILIZED SHEEP MANURE

100 lbs. $1.25 1-4 Ton $6.00 Ton $20.00

W. Elliott & Sons
New York

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CARNATIONS

ROOTED CUTTINGS
HEALTHY, YOUNG STOCK

	Per 100	Per 1000
Enchantress	$3.50	$30.00
Queen	2.50	20.00
Lawson, Queen Louise, Walcott,	2.00	15.00
Floriana	1.50	12.50
Lord	1.25	10.00
Fiancee	12.00	100.00

ROBERT C. PYE, - NYACK, N.Y.

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Have you Ordered Fred Burki

THE COMMERCIAL WHITE?

If not do so. All orders booked now are for March delivery.

'Need a good Red? Get the Cardinal

It cannot be beat.

$12 per 100. $100 per 1000.

S. S. SKIDELSKY

824 North 24th St. Philadelphia

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ROOTED CUTTINGS

COLEUS

Golden Queen, Verschaffeltii and Fancies

60 c. per 100 $5.00 per 1000

AGERATUM

Princess Pauline and Stella Gurney

75 c. per 100 $6.00 per 1000

Frank A. Pierson CROMWELL CONN.

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Progressive manufacturers will find HORTICULTURE an unexcelled advertising medium for all goods pertaining to horticulture.

Now is the Time to Sow

the new Hybridized Giant-flowered

Obconica Primroses

AS

	1000 Seeds	Tr. Pkt.
Carmine, the best Seller	$1.00	$.50
Purple	1.00	.50
Violet	1.00	.50
Compacta, a fine Potter	1.50	.50
Buttercup Primrose-Grandiflora	1.00	.50
Baby Primrose	.50	.30
Peppermint, true	.75	.30

O. V. ZANGEN, Hoboken, N. J.

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2000 ORCHIDS AT AUCTION

SANDER'S ANNUAL SPRING SALE OF ORCHIDS

April 25th

will include many healthy specimens of Established and Imported Plants, also a large quantity of HYBRIDS, flowered and unflowered, together with BULBS, ANTHURIUMS and other plants in splendid condition.

April 25th

From Sander, St. Albans, England. To be sold at

CLEARY'S HORTICULTURAL HALL - - 62 Vesey St., N. Y. City

Send for Illustrated and Descriptive Catalogue

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GARDENIAS

Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

A Splendid Easter or Spring Pot Plant

YOUNG ROSES

Own Root AMERICAN BEAUTY. First crop now ready from 2½-inch pots. $6 per 100; $50 per 1000.

GRAFTED BRIDES and BRIDESMAIDS on Irish Stocks. $12 per 100.

Robert Scott & Son

Sharon Hill, Del. Co., Pa.

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4500 EASTER LILIES

fine foliage, 1½ to 3 feet high, from 3 to 12 buds per plant, 10 cts. per bud or flower

HYACINTHS, TULIPS, DAFFODILS

CASH WITH ORDER

C. DEHN, 178 Beekman St.

SARATOGA SPRINGS, N. Y.

Please mention HORTICULTURE when writing.

ORCHIDS

CATTLEYA LABIATA

Just at hand in superb condition. WRITE FOR PRICES.

We also recommend our large and fine stock of ESTABLISHED ORCHIDS

LAGER & HURRELL

ORCHID GROWERS & IMPORTERS

Send for Catalogue SUMMIT, N. J.

Apr. 25 **ORCHIDS** Apr. 25

Sander's Annual Spring Orchid Sale

Send for Descriptive Catalogue to

CLEARY'S HORTICULTURAL HALL

62 Vesey Street - - New York City

In writing to advertisers, mention HORTICULTURE

Bays, Palms, Orchids

Send for catalogue of

Florists' Decorative Plants

JULIUS ROEHRS CO.

RUTHERFORD, N. J.

CYCLAMEN SPLENDENS GIGANTEUM HYBRIDS

Once transplanted,	$2.00 per 100	$18.00 per 1000
Twice "	$3.00 per 100	$25.00 per 1000

Seed of only selected flowers and well-built plants. None better.

C. WINTERICH, Defiance, Ohio

In writing to advertisers, mention HORTICULTURE

70,000 BLOOMING PLANTS

FOR EASTER

20,000 Pots of Lilium Longiflorum, at 12 cts per bloom.
4,000 Crimson Ramblers trained in unique and artistic designs, $1.00 to $25.00 each.
10,000 Azaleas 75 cts. to $15.00 each.
3,000 Hydrangeas, 75 cts. to $5.00 each.
3,000 Spiræas, $4., $5. and $6. per doz.
3,000 Rose plants, $6, $9. and $12. per doz.
Rhododendrons, $1.00 to $15.00 each.
Genistas, $6, $9. and $12. per doz.
Metrosideros, (Bottle Brush) $1., $1.50 and $2. each.
A large assortment of Hyacinths in pans, $9. and $12. per doz.
Wistarias, and other blooming plants.

CASH OR REFERENCE

H. C. STEINHOFF

West Hoboken, New Jersey

In writing to advertisers, mention HORTICULTURE.

Sultana Impatiens

IN BUD AND BLOOM

2 inch pots, per 100	$2.50
3 " " " "	4.00
4 " " " "	5.00

VARIEGATED VINCA

3 inch pots, per 100	5.00

JOHN C. URE, 2343 Evanston Av., CHICAGO

In writing to advertisers, mention HORTICULTURE

ROSES

Grafted and own root stock of all leading and popular varieties

We call especial attention to our

Killarney

The New Irish Beauty

Chrysanthemums

Dr. Enguehard, Wm. H. Duckham, from 2¼-in. pots, at $10.00 per 100; $1.50 per doz.

Mlle. Marie Liger, Yellow Eaton, Ethelyn, Miss Alice Byron, from 2½-in. pots, at $4.00 per 100; $35 00 per 1000.

General assortment of well-known and standard varieties from 2¼-inch pots, $3.00 per 100; $25.00 per 1000. Rooted cuttings, $2.00 per 100; $15.00 per 1000.

CARNATIONS

Rooted cuttings now ready of all reliable and well-known varieties. Send for price list.

A. N. PIERSON, CROMWELL, CONN.

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The PHILADELPHIA CUT FLOWER CO.

R. C. HAYDEN, Sec'y and Treas. WILLIAM J. MUTH, Mgr.

Our Stock consists of the finest Cut Lilies and everything Seasonable for Easter

1516-1518 SANSOM ST., PHILADELPHIA Store open 7.30 a.m., to 3.00 p.m.

Plants for Easter

Write for List and Prices

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WHOLESALE FLORISTS

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The Leading Novelty among Roses at present

Samuel S. Pennock

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Cut Flowers

BOSTON'S BEST

....All Varieties....

SHIPPED TO ALL POINTS

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Largest Stock in New England
Lowest Wholesale Rates

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Tel. Main 5973 BOSTON

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Hardy Cut Dagger and Fancy

FERNS

$1.50 per 1000

Green and Bronze Galax, $1 per 1000

Best Stock of FLORISTS' SUPPLIES In the country

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Boston, Mass.

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WILLIAM J. BAKER

WHOLESALE FLORIST 1432 So. Penn. Sq., PHILA.

FANCY CARNATIONS

Brides and Pansies

In writing to advertisers, mention HORTICULTURE

EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO April 12	CHICAGO Easter Prices.	PHILA. April 12	BOSTON April 12
ROSES				
Am. Beauty, Fan. & Sp.	32 00 to 42 00	40.00 to 50 00	30 00 to 35.00	12.00 to 25 00
" Extra	25.00 to 30 00	30 00 to 35 00	20 00 to 25.00	8.00 to 12 00
" No. 1	18 00 to 20 00	20 00 to 25 00	12 50 to 15.00	4.00 to 6.00
" Lower grades	4 00 to 10 00	6 00 to 12.00	6 00 to 8.00	2.00 to 3 00
Bride & Maid — Fan. & Sp.	6 00 to 8.00	10 00 to 12 00	6.00 to 10.00	4.00 to 6.00
" " Extra	5 00 to 6.00	6 00 to 8 00	6 00 to 8 00	3.00 to 4 00
" " No. 1	3.00 to 4 00	4.00 to 5.00	4 00 to 6 00	1.00 to 2.00
" " Lower gr.	1 00 to 2 00	to	2.00 to 4 00	..... to .....
Liberty, Fancy & Special	8 00 to 10 00	10 00 to 12 00	20 00 to 25.00	8.00 to 12 00
" extra	6 00 to 8 00	6 00 to 8 00	15 00 to 20 00	4 00 to 8 00
" No. 1	4.00 to 5.00	4 00 to 5.00	10 00 to 12 50	3.00 to 4 00
" Lower grades	2.00 to 3 00	to	4.00 to 8.00	1.00 to 2 00
Golden Gate, Ivory, Chatenay — Best	6.00 to 8 00	..... to	6 00 to 8.00	..... to 6.00
Golden Gate, Ivory, Chatenay — Medium	4.00 to 5 00	to	4.00 to 5 00	..... to 4.00
Golden Gate, Ivory, Chatenay — Culls	1.00 to 3 00	to	1 50 to 3 50	..... to 2.00
CARNATIONS				
Fancy Class	2 00 to 3 00	4 00 to 5.00	3.00 to 4.00	1.00 to 3 00
General Class	1 00 to 2.00	2 00 to 3 00	2.00 to 3.00	.75 to 1.50
Lower Grades	.75 to 1 00	..... to .	1.00 to 1.50	..... to .50
VIOLETS				
Special	.50 to .75	..... to	.50 to .60	.35 to .50
General	.25 to .50	.75 to 1 00	.40 to .50	.25 to .35
Single	.35 to .60	..... to .	..... to	.20 to .25
ORCHIDS				
Cattleyas	40.00 to 60 00	to	..... to 50.00	50.00 to 60.00
Cypripediums	12 50 to 18.00	..... to	..... to 15 00	..... to .....
BULBOUS				
Lilies	8 00 to 12.50	10.00 to 15.00	10.00 to 12.50	5 00 to 8.00
Lily of the Valley	2.00 to 3.00	..... to 3.00	3.00 to 4.00	2.00 to 4.00
Roman Hyacinths	2.00 to 3.00	..... to	2.00 to 3.00	1 00 to 2.00
Paper White Narcissus	..... to	..... to	..... to	1.50 to 2 00
Daffodils	2.00 to 4.00	3 00 to 4 00	..... to	1.00 to 2.00
Tulips	1 50 to 4.00	2 00 to 6.00	2 00 to 4 00	1.00 to 3.00
Callas	..... to	..... to	..... to	6.00 to 8 00
Freesia	..... to	..... to	..... to	1.00 to 1.50
MISCELLANEOUS				
Mignonette	4 00 to 10 00	..... to	3 00 to 4 00	1.00 to 2.00
Sweet Peas	.50 to .75	..... to	.50 to 2.00	.50 to 1.00
Adiantum Cuneatum	75 to 1.00	..... to	..... to .75	.75 to 1.50
" Crowea num	..... to	..... to	1 25 to 1 50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12 50 to 16 00	..... to	15 00 to 20.00	12.00 to 16 00
Asparagus Plumosus; strings	25 00 to 50 00	..... to	35.00 to 50 00	..... to 50.00
" " bunches	25 00 to 35.00	..... to	35.00 to 60 00	35 00 to 50 00
" Sprengeri "	25 00 to 30 00	..... to	35 00 to 50 00	35.00 to 50 00
Gardenias	16 00 to 25 00	..... to	12 50 to 15 00	..... to .....
Lilac per bunch	.75 to 1 00	.35 to 1 00	1 00 to 2 00	..... to .....

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

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J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

In writing to advertisers, kindly mention HORTICULTURE.

WEILAND & RISCH

CHICAGO'S RELIABLE

Wholesale Growers and Shippers of

CUT FLOWERS.

59 Wabash Ave., CHICAGO.

Send for weekly price list.

WHOLESALE FLORISTS

In writing to advertisers mention HORTICULTURE

CUT-FLOWER MARKET REPORTS

BOSTON After passing through a very dull week, this market finds itself in a state of uncertainty as to present values and Easter possibilities. A few dark days have checked the enormous product which it last week staggered under, but altogether the situation is not encouraging. As to Easter and the lily question, it begins to dawn upon us that the growers, in their anxiety to avoid being too early, are, most of them, obliged to do a little hustling in order to get the stock in on time. American Beauty roses are coming on in elegant shape and are likely to interfere somewhat with the prosperity of other staple varieties. One, however, which it cannot hurt, is Queen of Edgely, which will give the Beauty a pretty tussle for supremacy in this market. Mr. Joseph Bennett of Montreal, has been here a couple of days looking over the situation and incidentally his legion of old Boston friends.

CHICAGO There was no change from the depressed condition of last week. American Beauties are coming in larger quantities, the quality improving daily. Bride and Bridesmaid are equal to any demand. Uncle John is superb. Mme. Abel Chatenay at P. Reinberg's is coming on 3 to 4 foot stems, flowers perfect. Carnations continue in over-supply; the receipts for the last two days, however, were below normal, resulting in a slight advance for fancy. Bulbous stock, especially tulips and outdoor jonquils, is plentiful. Cut pansies, southern lilac, spiræa, iris, forsythia, and trailing arbutus have made an appearance. Violets are losing in quality and singles are entirely out of the market. Green goods in ample supply.

NEW YORK General trade conditions in the cut-flower territory are by no means encouraging. The demand is very unsteady; one day's brisk business is followed by many of pronounced dullness. The market is very well supplied with all varieties of stock and the quality is all that could be asked for. Violets are rapidly deteriorating and their prosperity has been more than menaced by the immense cargoes of southern daffodils and jonquils which have been piled in here for the past two weeks. They are sold on the streets for a trifle and have effectually stamped out what little life there was left in the violet trade. These goods should go to the produce men instead of the cut-flower markets; they would be distributed through different channels and, it is believed, with more ample returns for the shippers.

PHILADELPHIA Business improved a little, especially towards end of the week, but is still and far from what it ought to be at this season. No great spurt is looked for until next week. By Holy Thursday the rush should be on. Plant orders are reported at Pennock's and Niessen's to be heavy, most of the stores being anxious to get their orders in early so as to get the pick of the stock. Godfrey Aschmann says he still has some fine azaleas left; but they are going fast. There is a great scramble for good azaleas this year in our neighborhood.

PITTSBURG During the past two weeks we have experienced the dullest period since the advent of Lent. There is very little business being done, though stock comes in plentifully and equal to demand of all grades. Funeral work is the main factor to dispose of the over-supply of carnations and lilies. Pot plants are in demand, and a rushing business is looked for during Easter. Prices are kept up, and lilies will command good figures, especially for well-grown pot plants.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street - - NEW YORK

American BEAUTIES AND QUEEN OF EDGELYS

WELCH BROS.

City Hall Cut-Flower Market

15 PROVINCE ST., BOSTON

In writing to advertisers, mention HORTICULTURE

FRED EHRET WHOLESALE FLORIST

Center for BRIDES, MAIDS, BEAUTIES CARNATIONS, Etc.

1403-5 Fairmount Ave., PHILADELPHIA.

Established 1890

Mention HORTICULTURE when you write.

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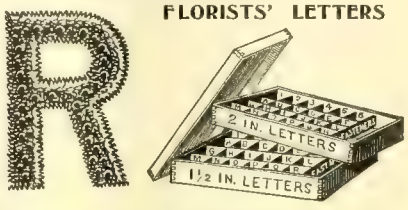
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.

Script Letters, 4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Green Silkaline.

Do not be put off with cheap substitutes.

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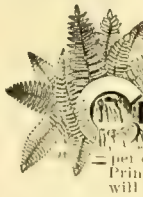
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Florists' Supplies

BEST LINE IN THE COUNTRY



FANCY OR DAGGER FERNS

FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. **Send us your orders at once** and we will please you. Branch Laurel, 35c. per large bundle. Southern wild Smilax, 50 lb. cases, $7.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

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JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Up-Hudson Violets
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

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Wholesale Florist
Consignments received, sold well and returns made promptly.
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Telephone, 280 Madison Sq.

JOHN I. RAYNOR
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SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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Walter F. Sheridan
Wholesale Commission Dealer in
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Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
VIOLETS
Carnations
Lily of the Valley
Hyacinths, Lilies
Paper Whites, and
all other flowers
in season
Telephones 2200 Madison, 2001 Square
Special care taken with Shipping Orders
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ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending April 8 1905	First Half of Week begining Apr. 10 1905
ROSES		
Am. Beauty, fan. and sp	12.00 to 16.00	10.00 to 20.00
" extra	8.00 to 10.00	8.00 to 10.00
" No. 1	4.00 to 6.00	4.00 to 6.00
" Lower grades	1.00 to 2.00	1.00 to 2.00
Bride and Maid, fan. and sp	5.00 to 6.00	4.00 to 6.00
" " extra	3.00 to 5.00	3.00 to 4.00
" " No. 1	1.50 to 3.00	1.50 to 2.00
" " Lower gr	1.00 to 1.50	.75 to 1.00
Liberty, fan. and sp.	12.00 to 20.00	12.00 to 20.00
" extra	6.00 to 10.00	6.00 to 10.00
" No. 1	3.00 to 5.00	3.00 to 5.00
Meteor	3.00 to 5.00	3.00 to 5.00
Golden Gate, Ivory, Chatenay — Best	4.00 to 8.00	4.00 to 8.00
Golden Gate, Ivory, Chatenay — Medium	1.50 to 2.50	1.50 to 2.50
Golden Gate, Ivory, Chatenay — Culls	.75 to 1.00	.75 to 1.00
CARNATIONS		
Fancy Class	2.00 to 3.00	2.00 to 4.00
General Class	1.00 to 2.00	1.00 to 1.50
Lower Grades	.75 to 1.00	.75 to 1.00
VIOLETS		
Special	.15 to .35	.35 to .50
General	.10 to .15	.25 to .30
Single	. . . to . . .	. . . . to . . . . .
ORCHIDS		
Cattleyas	50.00 to 60.00	50.00 to 60.00
Cypripediums	. . . . to	. . . . . to . . . . .
BULBOUS		
Lilies	3.00 to 8.00	4.00 to 6.00
Lily of the Valley	1.00 to 2.00	1.00 to 4.00
Roman Hyacinths	. . . . . to	2.00 to 3.00
Paper White Narcissus	1.00 to 2.00	. . . . to . . . . .
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	. . . . to 2.00	2.00 to 6.00
Callas	. . . . to	. . . . to . . . .
Freesia	. . . . . to	. . . . . to . . . . .
MISCELLANEOUS		
Mignonette	1.00 to 3.00	1.00 to 3.00
Sweet Peas	.50 to .75	.50 to .75
Adiantum Cuneatum	.75 to 1.00	.75 to 1.00
" Croweanum	. . . to 1.50	. . . . to 1.50
" Farleyense	. . . . to	. . . . . to . . . . .
Smilax	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, strings	20.00 to 50.00	25.00 to 50.00
" " bunches	20.00 to 35.00	20.00 to 35.00
" Sprengeri "	20.00 to 25.00	20.00 to 30.00
Gardenias	3.00 to 12.00	10.00 to 20.00
Lilac, per bunch	. . . . to	.25 to .75
Jacq	. . . . . to	. . . . . to . . . . .
Brunner	. . . . . to	. . . . . to . . . . .

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

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Cut Flowers on Commission
A Reliable Place to Consign to or Order from
Telephones: 3860-3861 Madison Square

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Wholesale Florist
CUT FLOWER EXCHANGE
55 to 57 W. 26th St. NEW YORK
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55 and 57 W. 26th St. NEW YORK
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OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
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113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
ALEX. J. GUTTMAN
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52 WEST 29TH ST. NEW YORK
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Telephone No. 325 Madison Square.

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Fine White and Yellow Daisies a Specialty
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MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
Traendly & Schenck
44 West 28th St. New York City
Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI April 10	BALTIMORE April 3	BUFFALO April 3	PITTSBURG April 12
ROSES				
Am. Beauty, fan. and sp.	35.00 to 45.00	25.00 to 35.00	20.00 to 25.00	50.00 to 60.00
" extra	25.00 to 30.00	15.00 to 20.00	10.00 to 15.00	25.00 to 30.00
" No. 1	15.00 to 18.00	10.00 to 12.50	6.00 to 8.00	10.00 to 15.00
" Lower grades	4.00 to 5.00	3.00 to 6.00	2.00 to 4.00	4.00 to 6.00
Bride and Maid, fan and sp.	5.00 to 6.00	..... to	..... to	4.00 to 8.00
" " extra	..... to 4.00	7.00 to 8.00	7.00 to 10.00	3.00 to 6.00
" " No. 1	..... to 3.00	..... to 6.00	4.00 to 6.00	3.00 to 5.00
" " Lower gr.	1.50 to 2.00	4.00 to 5.00	2.00 to 3.00	..... to .....
Liberty, fan. and sp.	6.00 to 8.00	..... to	..... to	8.00 to 12.00
" extra	5.00 to 6.00	..... to	7.00 to 8.00	6.00 to 10.00
" No. 1	4.00 to 5.00	..... to	4.00 to 5.00	4.00 to 8.00
" Lower gr.	..... to 3.00	..... to	2.00 to 3.00	3.00 to 5.00
Golden Gate } Best	..... to 8.00	8.00 to 10.00	..... to 6.00	6.00 to 10.00
Ivory { Medium	4.00 to 6.00	6.00 to 7.00	..... to 4.00	5.00 to 8.00
Chatenay } Culls	..... to 3.00	4.00 to 5.00	..... to 2.00	4.00 to 6.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	3.00 to 4.00	2.00 to 2.50	2.50 to 3.00	4.00 to 5.00
General Class	2.00 to 3.00	1.50 to 2.00	1.50 to 2.00	2.00 to 3.00
Lower Grades	1.00 to 1.50	1.00 to 1.25	.75 to 1.00	1.50 to 2.00
VIOLETS				
Special	..... to .50	..... to	..... to	.75 to 1.00
General	..... to .35	.25 to .40	.20 to .40	.50 to .75
Single	..... to	..... to	..... to	.25 to .35
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	12.50 to 15.00	6.00 to 12.50	10.00 to 12.50	12.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	1.50 to 2.50	2.00 to 3.00	3.00 to 4.00
Paper White Narcissus	2.00 to 3.00	2.00 to 3.00	..... to	2.00 to 3.00
Daffodils	1.00 to 2.00	.25 to 1.00	.25 to 3.00	1.00 to 2.00
Tulips	2.00 to 3.00	..... to	2.00 to 3.00	..... to .....
Freesia	..... to	.50 to 1.50	1.00 to 2.00	..... to .....
Callas	6.00 to 8.00	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	2.00 to 3.00	2.00 to 4.00	4.00 to 6.00
Sweet Peas	..... to .50	.50 to .75	.30 to .50	..... to .....
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.75 to 1.00	1.00 to 1.50
" Croweanum	..... to	..... to	..... to 1.50	..... to .....
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 15.00	15.00 to 20.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	40.00 to 60.00	35.00 to 60.00
" " bunches	..... to 35.00	..... to	..... to	30.00 to 50.00
" Sprengeri "	25.00 to 35.00	..... to	..... to	35.00 to 50.00
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

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PANSIES.

100,000 now in bloom, extra large field-grown plants They are the kind that sell. $2.00 100, $20.00 1,000.
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"Add Water, and Spray"
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BY FAR THE BEST



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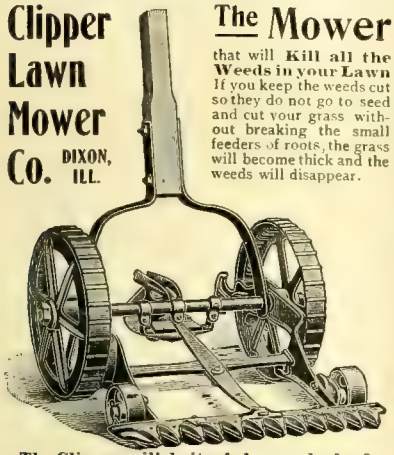
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If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



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Old English Glazing Putty,
SEMI-LIQUID,

For bedding glass in sash or for filling cracks or seams in roof joints or frames
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THIS **PUTTY** Is used in Machine or Bulb.

If too thick for bulb thin with a little Pure Linseed Oil, boiled.

So thinned it can be brushed into any crack or leak, making a solid filling.



THIS **PUTTY** makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault.

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Everything in Pine and Hemlock Building Lumber

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HOT BED SASH

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We Guarantee The Best Quality and Work

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12x14 - 12x16 — 12x20 / 14x14 — 14x16 — 14x20 / 16x16 — 16x18. B. Double at $2.05.
16x20 / 16x24 B. Double at $3.05
Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.
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Scollay Invincible Boilers
—FOR—
Hot Water or Steam
Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.
John A. Scollay
73 & 75 MYRTLE AVE.
Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices

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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
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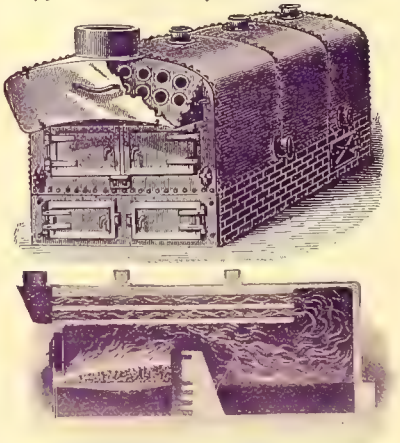
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Boston, Mass.
Greenhouse Mason Work a Specialty

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Are You Going .... To Build ?
I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. *NOT IN THE TRUST.*
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Remember this factory is NOT in the TRUST and has a free foot.

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Kroeschell Bros. Co.
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Greenhouse Boiler
47 ERIE ST., CHICAGO

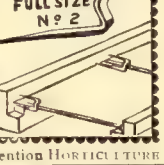


Boilers made of the best material, Shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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New Green House Catalogue
JUST ISSUED BY
King Construction Co.
North Tonawanda, N.Y. and Toronto, Ont.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.
FULL SIZE No 2



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INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

CYPRESS GREENHOUSE MATERIAL OF EVERY DESCRIPTION
WRITE FOR CATALOGUE
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THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Millbrook, N. Y.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.

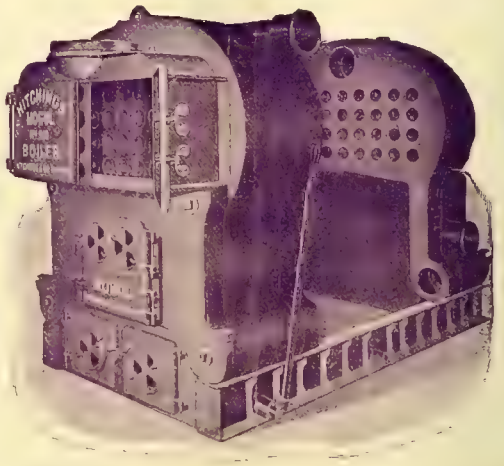


Interior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Millbrook, N. Y.

HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



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FOR HOT WATER or STEAM

HITCHINGS & CO.

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319 Tremont Bldg.

Send 4 cents for catalogue



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MASSACHUSETTS AGRICULTURAL

HORTICULTURE

Vol. I APRIL 22, 1905 No. 21



A House of Orchids

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

Nephrolepis Piersoni
ELEGANTISSIMA

The Best Record of any New Introduction

The Much Coveted **$50 Prize from the Horticultural Society of New York**

FOR THE BEST NEW PLANT OF THE YEAR



GOLD MEDAL
World's Fair

SHAW GOLD MEDAL
Louisiana Purchase Exposition
GOLD MEDAL
Pennsylvania Horticultural Society
GOLD MEDAL
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GOLD MEDAL
New Orleans Horticultural Society
SILVER MEDAL
Society of American Florists
SILVER MEDAL
Massachusetts Horticultural Society
SILVER MEDAL
New York Florists' Club — Highest Award
SILVER MEDAL
American Institute, New York
Highest Award
SILVER MEDAL
Newport Horticultural Society
Highest Award
SILVER MEDAL
Tarrytown Horticultural Society
Highest Award
And Numerous Diplomas and Certificates of Merit

The beauty and value of this new fern to be introduced Spring of 1905 can best be appreciated by seeing it. It is a sport from the Pierson Fern (Nephrolepis Piersoni), but it is very much more beautiful and of greater commercial value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnae are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnae standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful — entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether, it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced. The cut fronds, on account of their beauty, will be in great demand for table decoration, design work, and for use in boxes of loose flowers. Well-grown plants make most magnificent specimens. We think there is nothing in the fern line that is so handsome as this beautiful fern when well grown. It is a wonderful improvement over Nephrolepis Piersoni in every respect, both in regard to beauty and habit of growth.

PRICES:—2½-inch pots, $9.00 per doz.; 50 plants at 60c. each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each; 5-inch pots, $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

F. R. PIERSON CO.

Tarrytown-on-Hudson **NEW YORK**

HORTICULTURE

VOL. I | APRIL 22, 1905 | NO. 21

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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The New Irish Beauty

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Mlle. Marie Liger, Yellow Eaton, Ethelyn, Miss Alice Byron, from 2½-in. pots, at $4.00 per 100; $35.00 per 1000.

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From soil, 6.00 " 50.00 "

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Queen	*$2.50*	*$20.00*
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Golden Queen, Verschaffeltii and Fancies

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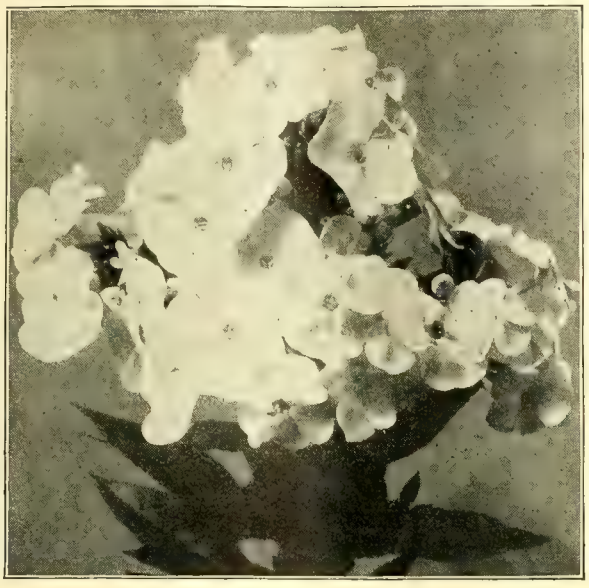
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IN BUD AND BLOOM

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Rooted Cuttings, Golden Bedder and C. Verschaffeldtii	$6.00 per 1000
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The above ready now. Cash must accompany the order.

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Once transplanted,	**$2.00 per 100**	**$18.00 per 1000**
Twice "	**$3.00 per 100**	**$25.00 per 1000**

Seed of only selected flowers and well-built plants. None better.

C. WINTERICH, Defiance, Ohio

Choice California Privet

3 years old. Very heavy and well branched.

2 to 2 1-2 feet	$2.00 per 100	$19.00 per 1000
1 1-2 to 2 "	1.50 "	13.00 "
1 to 1 1-2 "	1.00 "	9.00 "

Cash with order. Packing Free. Prompt shipment. 3000 plants and up, less ten per cent from above prices, cash.

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The New Rose WELLESLEY

Is a welcome addition to the list of forcing roses

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

. . . PRICES . . .

Own root	$ 25	per 100	Grafted	$ 30	per 100
"	55	" 250	"	70	" 250
"	100	" 500	"	130	" 500
"	200	" 1000	"	260	" 1000

WABAN ROSE CONSERVATORIES, *NATICK, MASS.*

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Majestic, Adelia, Madonna

2-inch Pots, $3.00 per doz., $15.00 per 100

Three Fine Snapdragons

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$6.00 per 100, $50.00 per 1000

WHITE LAWSON

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English-grown Stock, low budded on Manetti, now ready for delivery. Strong two-year-old plants

EACH $.35; DOZ. $3.50; 100 $25.00

ALFRED COLOMB. Brilliant carmine-crimson; large.
BARON DE BONSTETTIN. Velvety blackish crimson.
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BOULE DE NEIGE. Pure white; free-blooming, strong, vigorous habit.
CAPT. HAYWARD. Bright crimson.
CHARLES LEFEBVRE. Bright velvety scarlet.
CLIO. Flesh color, shaded in the centre with rosy pink.
DUKE OF EDINBURGH. Vermilion.
DUPUY JAMAIN. Very bright cerise.
EARL DUFFERIN. Velvety crimson, shaded maroon.
FISHER HOLMES. Rich velvety crimson.
FRANCOIS MICHELON. Deep rose.
GENERAL JACQUEMINOT. Brilliant scarlet-crimson.
GLOIRE LYONNAISE. Fine chrome yellow.
JEANNIE DICKSON. Rosy pink.
JOHN HOPPER. Brilliant rosy-crimson.
JULES MARGOTTIN. Bright cherry.
LA FRANCE. Bright lilac-rose; centre silvery white.
LOUIS VAN HOUTTE. Deep red, shaded with maroon.
MABEL MORRISON. White, faintly flushed with pink.
MADAME GABRIEL LUIZET. Fine satiny rose.
MAGNA CHARTA. Bright pink suffused with carmine.
MARCHIONESS OF LONDONDERRY. Ivory white.
MARGARET DICKSON. White, pale flesh centre, exquisite form; petals large and of good substance.
MARIE BAUMANN. Rich carmine-crimson.
MERVEILLE DE LYON. White, with delicate blush shade in the centre; very large and full, perfect form.
MRS. JOHN LAING. Beautiful soft pink; large, full, and fine shaped, with a most delightful fragrance.
MRS. R. G. S. CRAWFORD. Rich, clear rose pink.
MONSIEUR BONCENNE. Velvety dark crimson.
PAUL NEYRON. Deep rose; very large.
PRIDE OF WALTHAM. Delicate flesh color.
PRINCE CAMILLE DE ROHAN. Velvety crimson.
SENATEUR VAISSE. Dazzling red
SIR ROWLAND HILL. Port-wine color.
ULRICH BRUNNER. Cerise red large, full, globular flower; one of the best red sorts.
VICTOR VERDIER. Deep rose centre bright rose.
XAVIER OLIBO. Velvety black shaded with amaranth.

R. & J. Farquhar & Co., 6 & 7 So. Market St. BOSTON, MASS.

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ROSES!

Gen'l MacArthur **La Detroit**
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Bridesmaid **Mme. Chatenay**
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And many others

Remember there are none better in the country

John N. May, Summit, N.J.

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Ferns for Every-Day Use

POLYPODIUM

Continued from last week's issue



(Goniophlebium)
POLYPODIUM NERIIFOLIUM CRISTATUM

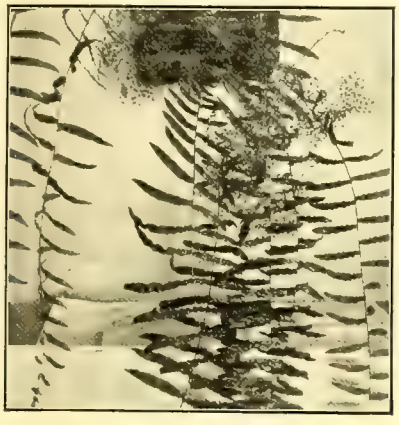
GONIOPHLEBIUM

P. loriceum from West Indies and Mexico has a very stout creeping rhizome, with fronds over one foot long, about five inches broad, pinnæ entire, sickel shaped, enlarged on the upper side at the base.

P. neriifolium or Braziliensis from West Indies and South America, has a stout scaly rhizome, the fronds long-stalked over two feet long, and about six inches broad; the leaflets are entire, and of a heavy texture. There is a form P. n. cristatum which has the top of the leaflets cristated, and gives the fronds a feathery appearance.

P. sub-auriculatum from the Philippine Islands is the best known of this section, and a very useful plant for hanging baskets; from a mid-creeping rootstock, the fronds, sometimes eight feet long and three inches broad are pendent; the leaflets relatively narrow, are set apart, slightly dentated and eared at the base. The spore masses, like in a few other species, are immersed. forming little protuberances on the upper surface.

P. verrucosum from the Philippine Islands has long-stalked fronds, about four feet long and one foot broad, arching; the numerous entire pinnæ are slightly hairy on both sides and the marks of the spore masses are very apparent on the upper surface.



(Goniophlebium)
POLYPODIUM SUB-AURICULATUM

P. fraxinifolium from Central America has long-stalked fronds about three feet long and one broad; the slightly notched leaflets, from one to three inches broad, are pointed and narrow at the base, and of feathery texture.



(Niphobolus)
POLYPODIUM LINGUA

POLY. TRICUSPE POLY. LINGUA CORYMBIFERUM

GONIOPTERIS

Goniopteris crenatum from West Indies. The frond is simply pinnate, the terminal pinnæ are long, and has two to four pairs of lateral ones, from six to eight inches long and about two broad in the middle.

P. diversifolium from Central America. The frond, one to two feet long, long-stalked, simply pinnate, with long narrow leaflets, nicely veined.



(Goniopteris)
POLYPODIUM OBLITERATUM

P. obliteratum from Jamaica has a long stalk terminated by long pinnæ and with a few lateral pairs; they are round, dentated half-way to the midrib, and of rough, papery texture.

P. reptans from West Indies and Central America has fronds about fifteen inches long, short-stalked, two to three inches broad, simply pinnate, and arching, and make roots at their extremities.

PHLEBODIUM

P. aureum from Florida and West Indies, that much-known plant, is very useful with its large glaucus fronds; the creeping rootstocks grow very long and large; they branch out readily when cut back and make more bushy plants.

P. a. areolatum from South America, P. a pulvinatum from Brazil, P. a. sparadocarpum or glaucum from South America are three very good forms from aureum; the two first ones are more divided, and the third is the most glaucus of them all.

P. nigripes from Venezuela forms a stout, black, scaly, rhizome; the fronds simply pinnate, grow on long stalks; they are leathery in texture and rough on the underside.

P. Schneiderii is a hybrid raised in England from seedlings of P. aureum, and a form of P. vulgare (elegantissima). The fronds are about eighteen inches long and broad, are three



(Phlebodium)
POLYPODIUM AUREUM

times divided in narrow, undulated, overlapping leaflets, with very graceful effect. The frond is not flat but branching in all sides. This fern has to be propagated by division, as it rarely gives good spores. I have a few sporting from it this year. I do not know what they will look like. It is a fine plant.

PHYMATODES

In this section the spore masses are sunk in a deep cavity, which makes them prominent on the upper surface of the frond.

P. longissimum from India and South Sea Islands has fronds one to three feet long, simply pinnate, of leathery texture, leaflets four to six inches long, and one and a half broad. The marks of the spore masses are very apparent on the upper surface, the brown, scaly rhizome is wide creeping.

P. nigrescens from the South Sea Islands has the fronds two to three feet long by one and a half broad. They are borne on erect firm stalks, they are cut in long entire lobes not unlike a big Pteris cretica; the marks of the spore masses are very prominent.

P. leiorhizon from North India has fronds from two to four feet long and half as broad, on long stalks, simply divided in long narrow pinnæ of strong texture.

P. hemionitidium from South China and India has the frond entire, one to one and a half foot long, and three inches broad.

P. pustulatum from New Zealand is another species with entire fronds, sometimes cut into broadly spear shaped lobes; it is of thin texture, and the veins are beautifully marked.

DRYNARIA

These are noble exhibition plants, but only useful for big decorations; their true place is in the stove house. They all have large deep-lobed fronds, nicely veined.

P. Meyenianum from the Philippine Islands, P. Heracleum from Java and Philippines, and P. coronans from Asia are some of the best.

NIPHOBOLUS

This section has the brown-reddish spore masses set very near together and they cover the entire back of the fertile fronds.

P. lingua from Japan and China is a very hardy fern, the fronds entire, stalked, narrow on both sides, are of very thick texture; dark green, with the under surface brown.

P. l. corymbiferum is a form imported from Japan, which has the top of the fronds branched and crisped.

P. l. Heteractis is a Himalaya form. The fronds are broader, spear-shaped, and the under surface is of a creamy white color.

P. tricuspe from Japan and Korea is smaller and of softer texture, the base of the fronds lobed.

A. Hemsley

Some Greenhouse Pests

II

THRIPS

Thrips, or blackfly as this insect is called in Germany, are spindle-shaped, active, slender, leaf hoppers with sucking mouth-parts. They are about $\frac{1}{12}$ of an inch long. The true thrips live only in greenhouses, where they work havoc sucking the juices from leaves and flowers, being destructive in larval, pupal, and perfect stages.

Very little is known of the life-history, no males ever having been found. The insects themselves are very active, and may exist in a house for years, their presence being made known only by the results of their work. The adult female is black, extremity of abdomen bright red, antennæ and legs white, the wings hyaline and very slender.

The habitat is District of Columbia, Iowa, Massachusetts, and Michigan.

The food-plants are principally herbaceous plants, azalias, dahlias, ferns, verbenas, vines, carnations, pinks, and aspidium. *Treatment.* — Syringe plants. Wash them with soap-suds. Vaporized tobacco juice is said to help. Put braziers of charcoal in the houses, and on these place saucepans containing one pint of tobacco juice of 14 degrees strength. When this is reduced to a thick syrup add one pint of water. One pan to 2,000 feet of house is sufficient. No plants are injured by it, the cost is slight, 12 to 15 cents a quart, and it is effective. Another remedy is to burn pepper on a hot shovel, carrying this down through the house.

RED SPIDER (TETRANYCHUS TELARIUS)

The red spider is not a true insect, but a mite, as it has eight legs, while all true insects have but six. there are several species in our country, but they have never been differentiated to any great extent. The mite is roundish in outline, .04 to .06 of an inch in length, and covered with bristles. The legs, eight in number in the mature spider, six in the young, are the same length as the body. In color red predominates, although there are shades of brown, green, and yellow. Adults can be distinguished with the naked eye, but a glass is necessary to find eggs or young.

Little is known of the life-history. The insect lives over winter, when outdoors, under leaves and litter, possibly only the female surviving. If this is the case, when spring comes she lays eggs that produce only males, which on maturing mate, and the resulting eggs bring forth young of both sexes. To protect the eggs and young as well as the adults, the females spin a web which appears as a sheen on the under surfaces of the leaves. In this they live. Probably there is no period of rest in the greenhouse, the breeding going on uninterrupted. Two moults are passed through before reaching maturity, the whole covering a period of three weeks. The spiders are very active and spread rapid from plant to plant.

Maine, New York, Pennsylvania, District of Columbia, Illinois, Massachusetts, and Delaware contain the worst infested regions.

The red spider will eat almost anything, but proves most destructive to violets, carnations, and roses, sucking the juices, thereby distorting blossoms and weakening the plants. *Treatment.* — No very successful remedy has been found. Spraying with kerosene emulsion, immersing plants in it for 15 to 25 seconds, spraying with salt water, 2 ounces to a pail of water, all help, but to be effective must be repeated often. The most practical method is to thoroughly syringe the plants every few days, with water under a pressure of 20 pounds, hitting the under sides of the leaves in particular. Choose sunny weather and repeat often.

R. I. Adams.

Clivia (Imantophyllum)

This South African amaryllidaceous plant deserves much more attention than we have hitherto accorded it. Very few flower-spikes of any kind can compare with these to draw attention. Undoubtedly the best and most practical way of growing them for general conservatory or window decoration is in 7- or 8-inch pots; this size affords room for one to two large crowns, that in turn produce one or two large and handsome flower-scapes, with flower umbels of corresponding proportions, containing according to excellence of culture and variety, from sixteen to twenty orange-scarlet individual flowers. In this manner they are easily shifted and placed where they may be most effective.

For exhibition purposes, however, they are most effective when grown in large tubs where any number of crowns can be had, and in this way if well-flowered they make a superb show. On account of their bold, handsome, strap-shaped green foliage, they can be put to good use when not in flower in diminishing the hard and stiff lines of massive halls, at the foot of generously proportioned stairways, in bay-windows, fire-places, etc.

As they make their growth in spring and early summer it is well to give them at this period all possible chance to mature the same, by placing them in green-houses of medium temperature; they can be placed out of doors in this locality in the latter part of May in a partial shade, that is, shade cast by trees but not immediately under them. The north side of a wall or building that is sufficiently high to protect them from the fierce mid-day sun is an ideal place for them. Except for the purpose of getting plants of large proportions in as short a time as possible, frequent pottings are not necessary; they flourish and flower in cramped quarters, provided they are generously looked after with liquid stimulants; they require much water when growing, which means from early summer to late fall. As they have fleshy roots, tough, fibrous soil, chopped somewhat rough, with leaf mould, or, better still, spent mushroom-bed manure, charcoal, and a little lime suits them first-rate. I don't wish it to be understood by this that they are anyway exacting as regards soil requirements, for they are not, being exceptionally free from miffiness of any kind.

On the continent of Europe they have long been much prized for their value as house plants, as well as for conservatory embellishments; their popularity is still in the ascendant, as I learned a twelvemonth ago in Germany; they were frequently noticed in the windows of gentlemen's dwelling-houses. Belgian firms have been especially noted for the cultivation and introduction of fine varieties of these plants. English firms follow the Belgians in appreciating their decorative value, and have done considerable towards the production of finer varieties. The late William W. Bull of London, did, in his time, more than any other in England to popularize them; of later years the famous Veitch firm has taken them in hand, and to good purpose, as they have produced very fine varieties, an achievement characteristic of this noted firm in all branch lines they choose to take up.

Clivia miniata, is yet considered of value by some writers, but I fancy those are less well acquainted with the new kinds, which have so much eclipsed miniata as miniata is superior to the drooping-flowered varieties of which Clivia nobilis (note the specific name) is the pioneer; the latter are mere weeds in comparison with the former. Personally I consider C. miniata entirely out of the race, and not worth house-room, since we have so many finer kinds to choose from. Its chief value now is historical rather than useful, being the original source from which the finer varieties and what I might aptly term the upright umbellata kinds, have sprung. C. m. superbum was one of the first noticeable breaks from the original, then followed maximum; Martha Reimer comes on the scene soon after, each new-comer eclipsing the former in some greater or less detail of excellence; chiefly, larger and compacter flower umbels with more brilliant coloring. The last of the above trio had it all its own way for a long while, being a stronger grower, and conspicuously superior as to texture, size, and coloring of flowers, the latter being bright orange-scarlet. C. m. Baroness Schroeder, C. m. Ambrois Verschaffelt comes next on the stage with many others, to dispute the rights of Martha Reimer for premier honors; they in turn to yield to the still newer ones, such as Favourite, Admiration, Excellent, etc., of Veitch's; there can be no mistake in purchasing the latter as they are among the top-notchers.

I would say that there are a great many named varieties, and although marked distinction is not wanting between some kinds, quite a number of them present none, or at best they are microscopic. Clivia Aitoni, C. nobilis (or Imantophyllum nobilis, as it is better known) with I. cyrtanthiflorum and I. Gardnerianum are the drooping-flowered kind, with numerous drooping, insignificant dull-orange, green-tipped flowers, the first of those being the pioneer introduction, I believe. I make mention of them here as being mere weeds compared with the others, as stated elsewhere, to put my young friends that have not yet become acquainted with those plants on their guard against purchasing worthless varieties. In conclusion I would state that one of the other good qualities of clivias is their simple and modest requirements as regard winter treatment, a temperature of forty degrees suiting them very well, provided they are not drenched with over-doses of water; on the contrary they ought to be kept on the dry side in low temperature, but not dust-dry. They respond very readily, when introduced into warmer quarters, in developing their showy flower-spikes.

N. Finlayson

Echoes from England

International Flower Shows

It is announced that a great international horticultural exhibition will be held in Paris from May 20 to 28. This will be the most important show of plants and flowers in Europe during 1905. It is many years since we had a large international plant and flower show in this country, and it is to be hoped that before long it will be possible to inaugurate one. The suggestion has been made and probably the matter will be taken up and the proposal eventually become an accomplished fact. One of the most famous European plant exhibitions is the Ghent Quinquennial; this was last held in 1903; it occurs, as its name implies, every five years. Exhibitors and judges from almost every country in Europe attend this gathering, probably unique in its cosmopolitan character.

The general arrangement of the exhibits at a continental flower show is far more attractively carried out than at our own exhibitions. Large, bold groups of plants are arranged on the floor after the manner of flower beds, so that the whole exhibition resembles nothing so much as a garden containing all that is most beautiful in the world of flowers. Not only individually, but collectively, are the plants seen at their best.

From what one can learn by the illustrations in Horticulture and other of your gardening journals the same idea appears to be carried out in America, at any rate, to a large extent. In England, unfortunately, this is not the case. Usually the visitor must make his way through banks of plants and flowers, many of them far too high to be properly seen, and crowded together, and thus while the material is of the very finest, it never shows to the best advantage. When a bird's eye view of the show can be obtained the display lacks all the charm and beauty so characteristic of continental flower exhibitions.

A New Tree Carnation

The latest addition to the rapidly increasing list of tree carnations is at any rate up to date so far as its name is concerned, for it is called General Kuroki, a name now familiar the world over. It is as good as its name, for when shown at the Royal Horticultural Society's meeting yesterday (March 14th) by Messrs. Cutbush & Son, Highgate, London, it obtained an award of merit, and was generally admitted to be the finest new variety seen for a long time. The color is best described as crimson-scarlet. It has very long stems and the calyx is strong and does not burst. While remembering that we are indebted to American growers for the best new tree carnations, I think General Kuroki quite worth bringing to your notice.

Italian Hyacinths

An excellent display was made on the 14th in the Horticultural Hall by Messrs. Sutton & Son, Reading, with a large group of their giant Italian hyacinths. These are intermediate between the useful early flowering Roman hyacinths and the stiff, ordinary Dutch varieties. They are very free flowering and sweetly scented, bearing spikes of blue, white, or pink blooms. They are intermediate between the Roman and Dutch both in habit of growth and flowering, and also in the blossoming season.

Cineraria stellata Hybrids

We have few more useful or more popular early spring greenhouse flowers than the hybrids obtained by intercrossing Cineraria stellata and the ordinary large-flowered forms of cineraria. The flowers, which are intermediate between the small stellata and the large richly colored blooms, are most freely produced, and the plants are very useful either as decorative plants or to provide cut flowers for the home. They have been greatly improved by the hybridist within the last few years and many of the colors that make the large-flowered varieties so much sought after have been instilled into the hybrids.

A New Clove-Scented Stock

"All the year round" is the name of this new variety, and it was so called because it is said practically to be a perpetual flowerer. It is a perennial, producing white clove-scented flowers. It is well suited to pot culture as was clearly evidenced by the large group of pot plants shown by Mr. Mortimer, Farnham, Surrey, before the Royal Horticultural Society yesterday. It is a plant that will probably be a good deal sought after.

Harry H. Thomas

London, March 15.

Acalypha Macafeana

Where something is wanted in bedding that will have color and attain considerable size in a very short time, few plants compare with this acalypha. It is easily propagated from cuttings taken from plants that had been saved for the purpose. The cuttings should be taken from the side shoots and not from the main stems as these are, as a rule, too pithy, and but seldom break out or grow as rapidly as the others. If the cuttings have been rooted by the first of March, so much the better, but I have often had nice plants to bed out the first week in June from cuttings put in about this time. After the young plants have been potted for the last time into 4-inch pots, and made considerable roots in these, they ought to be gradually hardened before being planted in the open, otherwise they will lose their leaves after being planted and get checked besides. A cold frame is the best place to harden them in. There they will get plenty of light, and all the air needed can be admitted without injury to anything else.

David McIntosh.

Carnation Breeding

Read at Champaign, Ill., by C. W. Ward

The complexity of the subject of carnation breeding, its immensity of detail preclude but a superficial skimming over of the subject in the limited time allotted to me.

The original carnation known to hybridizers for some 2,500 years before the Christian Era was a five petal single bloom about one inch in diameter, of a pinkish-mauve color.

The present carnation with which we are working is the product of several centuries of culture and hybridization. It is an open pollinated species and mother plants can be used both from the hybrid plants as well as in breeding upon the same plants or upon the same variety. Once secured from seeds a variety is easily perpetuated by propagation from cuttings which are secured in abundance and may be easily rooted. Improvements in varieties may be made by bud selection and bud variation as well as from seed variation due to hybridization. In raising varieties from hybridized seed very few improved sorts are produced, the proportion being about one good variety for each one thousand hybrids grown.

Up to the present time, I have been breeding for color alone, basing my work upon the theory that any laws developed in color work would hold good when applied to the development of other desired qualities.

The tools which I use in my work are very simple indeed, consisting of a pair of delicate tweezers and a microscopic magnifying glass. The method employed is to find the anther just bursting so that the pollen is in a condition of dry powder. The anther is removed by means of the tweezers, and the pistol of the flower desired to be fertilized is lightly touched along its entire length by the pollen bearing anther.

In order to do my work with reasonable method, I have divided it into sections as follows: — Crimson section, comprising crimsons or scarlet maroon in color; dark pink section which comprises all rose, cherry, and deep pink tones; light pink section, which comprises the light salmon or daybreak tints; scarlet section, which comprises all of the colors which may be termed red or scarlet; white section, comprises only the creamy white and snow white tints; yellow variegated with scarlet, crimson or pink upon yellow grounds, as the yellow varieties are almost invariably marked with pink, scarlet, or some other tint; white variegated section, comprises varieties of a light pink with scarlet or crimson markings. The blue section comprises varieties showing some tendency towards the blue in color. This latter section has not as yet produced anything that might be termed a blue as invariably there is enough pink in the make-up of the color to shade the tone into purple or mauve. The crimson, dark and light pink, scarlet, and white sections have been fairly well fixed, but the yellow, white, and pink variegated and blue sections will be very difficult to fix as they are essentially mosaics and there is a constant tendency towards variation in all hybrids produced from them.

The bulk of my profitable varieties can practically be traced to the variety, General Maceo, which was the result of a cross between the English variety, Winter Cheer, and Mr. Dorner's American variety, Meteor. The original plant of Maceo had a very peculiar habit, being almost a climber, and was dug from the frozen ground after all supposed good sorts had been taken into the field, its only recommendation being an intensely colored large bloom on a plant having a habit somewhat resembling a creeping grape vine in growth, but, by selection from bud variations, it was built into an immensely profitable commercial variety.



C. W. Ward

In hybridizing carnations we sometimes meet with what is termed seed sports. These have been invariably light pink varieties (more or less marked with crimson edgings and stripes) that have been produced by crossing crimson sorts which have comparatively pure crimson pedigrees for several generations.

Aside from its commercial importance, there is a sentimental side to carnation growing. The production of new hybrids which are distinct improvements upon existing sorts is always a pleasure and serves to keep one thoroughly interested in the Divine Flower, and amply repays for the close application necessary to produce practical improvements.

At the present time the commercial value of the carnation grown in this country has risen so that the calling may be considered one of the substantial professions. The annual value of the carnation product reached five to six millions of dollars when we consider both the sales of plants and flowers, and the capital invested possibly may amount to fifteen to twenty milllons of dollars, taking into consideration the value of the real estate and buildings devoted to carnation culture.

The improvement in the carnation which has resulted in giving us flowers three times the size that they ordinarily were, with stems four to five times as long, has produced a general advance in the price of the carnation which seems to keep pace with the increased demand. When I first undertook the growing of the carnation, fifty cents to one and two dollars per dozen was considered the retail price. At present two, three, six, sometimes eight and in rare instances ten dollars per dozen is secured. When I first entered the business fifty cents to one dollar up to four dollars per hundred as the maximum price were the wholesale rates. At present two, four, six, eight, ten to fifteen dollars are ruling prices and at certain seasons as high as twenty-five dollars per hundred are secured for the best and most perfect blooms.

The naming of a new carnation is quite a puzzle to the originator and he usually selects the name of some beautiful lady, some particular friend, some important personage, a bird, the names of planets or something that will serve to describe or produce an impression of the characteristics of his flower. In naming my own productions, I have honored the varieties with such names as Governor Roosevelt, The President, Mrs. Roosevelt, Viola Allen, James H. Manley, Robert Craig, and the Cuban patriots, General Maceo and General Gomez.

The carnation has frequently been used in a political sense. It was the McKinley emblem and the campaign flower during the campaign which elected McKinley and Roosevelt, and during that campaign the various carnation growers throughout the country donated many thousands of flowers to decorate the button holes of those marching in the political parades, and at the present time the American Carnation Society decorates the grave of the lamented president with carnations each year on the 29th of January.

The carnation is extensively used as a decorative flower. It lends itself to almost every use in which flowers are suitable. Its varied and delicate colorings, its magnificent pungent, refreshing odor, and its long keeping qualities render it probably the most valuable of all florists flowers.

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The Editor Has His Say

Don't forget Arbor Day.

We took occasion in a former number to mention approvingly Vitis rhomboidis as a good window plant. Mr. W. R. Smith tells us that Cissus antarctica, a close ally of the above, is much used in Russia in house decoration and can be recommended for that purpose.

Again the "Mayflower" is with us and once more we hear of the wholesale tearing up and destruction of this most beautiful of the early spring flora, that the blossoms may be sent in barrels-full to the city street pedlers. The practice as carried on, is ruinous and tends to the final extinction of the trailing arbutus in one section after another. With judicious picking and care to molest the vines as little as possible there would be no reason for apprehension.

We hear of instances where the brown-tail moth nests have been laboriously cut from the tops of the trees and then piled up and left, nests and all, in a brushheap! A more intelligent understanding of these things seems desirable. Even a paper with the years and dignity of the Boston *Journal* knows no better than to publish a criticism of the tree cutting in Middlesex Fells which contains the remarkable statement that "on none of the logs was there a sign of a brown-tail moth nest," confusing this insect with the gypsy moth which makes no nest but deposits its eggs on the bark of trees and similar places.

The popular appreciation for hardy perennials in home gardening is increasing very fast. The demands upon the nurserymen who supply such material are the best evidence of this. There seems almost no limit to the call for hardy flowering things from the early spring phloxes down to the last asters of fall. New and improved varieties are sought after with especial eagerness and the nurseryman who makes intelligent preparation for several years to come of this demand, makes no mistake.

Arbor Day's value is not alone in the number of growing trees it may add to the barren landscape, but in its effect on the people and especially the young, in awakening them to the deplorable condition of our once beautiful country, the causes of the despoliation and the necessity existing for every one to do something towards the beginnings of the stupendous work of restoration. Every movement calculated to extend the sentiment of appreciation for arboreal improvement, as opposed to the destructive instincts inherited from our reckless and improvident predecessors, should be assiduously fostered and supported.

The New England settlers were wantonly wasteful of their woodlands and, as in other sections of the new country, destroyed the forests indiscriminately. But on the other hand their affection for the trees was shown in the way they adorned their streets and dooryards with avenues of elms which to-day give an individuality and charm to the New England village which is seen nowhere else in this country. Only the more modern communities are barren and it would seem that the making of beautiful shady streets has become almost a lost art. The paper by J. A. Pettigrew in our two last issues will well repay a careful perusal.

The usefulness of many otherwise successful writers on tree and shrub subjects is greatly impaired by what seems to be an inordinate desire to push the cultivation of various ornamentals beyond their natural latitudes, constantly scheming and contriving means whereby a doubtful subject may be perhaps pulled through a precarious climate. The ultimate results are invariably disappointment and a damper on the enthusiasm of the unsophisticated victim of such advice. We see on all sides, wherever gardens are in evidence, instances of this ill-advised policy which is all right within the sphere of the experimenter, but is all wrong when applied to delude people into filling their gardens with things the life of which is nothing but an annually recurring gamble with the climate.

It is remarkable how people who stand by without protest when a century-old monarch is felled to make room for a street widening or the erection of a building, ready with such excuses as "it was half dead anyway," are prone to throw themselves into a hysterical war-dance the moment an expert in tree-work (whom they call "vandal" or "butcher") undertakes to carry out any plan of improvement which involves tree cutting. An instance of this near-sighted perversity is seen in the clamor let loose this season over the cutting which has been going on in certain portions of the Middlesex Fells reservation. The fact is that the larger part of this territory was divested of every decent tree years ago and the so-called "trees" now being thinned out are most of them nothing but sprout growths of oak and hickory from the half-decayed stumps of their sturdy ancestors and which cannot, under any possibility, ever become trees of any health or value. If, by their gradual removal, young seedling trees can get a chance and a good undergrowth of native brush be encouraged, we may hope that in our children's day this magnificent reservation will have been restored to something like its original natural condition of grand and beautiful forest. And we must depend for this upon seedlings, not clumps of stump growth.

After Adjournment

"Brassocattleyadigbyanoschroderaetankerville" is the picturesque name of a new and pretty orchid exhibited by Lord Tankerville at the Royal Horticultural Society's fortnightly show, at its hall at Westminster. The orchid obtained an order of merit, but it was unofficially suggested that a "nickname" should be found for it as soon as possible. — *Daily Mirror.*

A lighted match carelessly thrown into a wagon filled with straw caused no end of excitement in Hawley street at 12.30 o'clock April 15, and called out from Box 49 all the available apparatus in the downtown district.

W. H. Carr, a greenhouse proprietor of Newton Highlands, after delivering his plants, left his horse and wagon standing on Hawley street while he ate his luncheon. While the gardener sat at his midday meal a cloud of smoke drifted through the lunch room door.

Carr rushed out with a piece of Washington pie in one hand and a glass of milk in the other to find his wagon going up in smoke and the faithful horse doing a Highland fling.

Carr dropped his luncheon and quickly pulled the burning straw into the street, just as a chemical engine swung around the corner. — *Boston Traveller.*

WHOLESOME CHESTNUTS

Don't delay pruning hybrid perpetual roses, and if you want large blooms cut out all the weak wood beside cutting the strong wood well back.

The hybrid tea roses that have been buried or put away in frames require attention; uncover those having earth over them, and admit air freely to those in frames.

Grow zinnias as near the glass as possible, otherwise they will get lanky in spite of you.

To avoid trouble with Nicotiana Sanderæ, grow them in pots until ready to plant them out because they do not lift well out of flats.

Sow onion, carrot, beet, early peas, radish, parsley, spinach, lettuce, and plant potatoes, and a few early cabbage and also cauliflower if they are hardened; if not wait until they are.

Get ground ready for melons. Dig a trench at least eighteen inches deep, the length of your row of frames, fill up the trench with chopped turf and a little well-rotted, (never more than a one-third manure, mind) fill in so as to have a ridge; over this ridge place your sash right away. By doing this you will help warm the soil and make it more comfortable for the seed you will sow very soon. If you want to fool the deadly melon blight, get your vines going as soon as possible.

Try a few Lima beans in pots for planting out later. Break up alternantheras and if you haven't room in the greenhouse for all you need, make a hotbed into which put alternanthera in flats or prick it right off into the soil in the bed; you can have good, well-colored stuff like way.

Pound down all grass edges now while the ground is soft and before the grass grows much. If you don't pound the edges your roads and walks will gradually get too wide, whereas by pounding you push as much sod on to the gravel as you take off with the edging-iron later. Roll your lawns; it will help the grass, and help the poor fellows who push the lawn mowers.

Get cannas started into growth before planting them out.

W. H. Flye, Woonsocket, R. I., retires from the flower business and has sold his greenhouse to Thomas H. Greene, for removal.

CARNATION SPORTS

Prior to the advent of Lawson, carnation sports were of such rare occurrence that when one did occur, it could be named and claimed by the grower with whom it occurred as his origination, or at least as his exclusive stock.

Since Lawson and its descendants have come into existence all claim to exclusiveness in the ownership of a sport must be laid aside, as it no longer exists. Evidences of this fact could be used enough to fill this edition of Horticulture, but it is not necessary to go beyond the "White Lawson." With how many growers did this appear in one year? Answer this for yourself, and you have the answer to all of the others. To-day we are having the same thing in Enchantress and M. A. Patten.

The three Lawson sports that are being sold commercially are, through the wisdom of the men introducing them, being sold exactly for what they are: "White Lawson," "Red Lawson," and "Variegated Lawson."

There are true pink sports of Lawson and light pink Lawsons and Enchantress sports and Patten sports galore to come, and it is to be hoped that the growers will consult their own interests and avoid confusion by leaving off all special names and selling them for "Pure Pink Lawson" and "Light Pink Lawson," following with a description of their color, etc.

Two of these light pink Lawsons have been registered through an oversight of "yours truly," and several more are claiming recognition so that there would be endless confusion in this color alone, if they were given independent names with each grower with whom they occur, and on the strength of these facts this Society cannot in the future register any sports excepting under a descriptive and uniform name.

The three Lawson sports being offered commercially have also been shown at the meetings of this Society and at various Club Shows. This is not only commercial wisdom on the part of the owners, but the only way in which they can be properly disseminated.

To show them before this Society is the one and only way in which to get them before all of the best carnation growers at one time, and next to that in order to reach a still greater number the various Club Shows can be used.

As an illustration, if Smith shows his "Light Pink Lawson" at Boston next meeting and it strikes me as a good thing, I would buy my cuttings from Smith, no matter if Jones, who claimed to have the same thing but did not show it, would offer it at half the price asked by Smith.

Albert M. Herr, Lancaster, Pa.
For the American Carnation Society.

OBITUARY

Edward Fintan, landscape-gardener, of Lynn, Mass., died on April 13, aged 59 years.

Michael Cox, gardener for Thomas A. Edison, died from a fall at his home in Llewellyn Park, N. J., on April 8.

O. S. Phelps, author of the book "The Life of a Tree" and a well-known Adirondack guide, died at Keene Valley, N. Y., on April 18, aged 87 years.

Patrick T. O'Donnell, of Pittsfield, Mass., died suddenly at his home on April 14, aged forty years. He was engaged in the nursery business in Pittsfield for the past fifteen years.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Those growers who have been favored with an outing in Perry Green's launch during past summer, will be pleased to learn that Mr. Green has given it a thorough overhauling this winter and expects to have it in the water again this week.

On Tuesday, April 25, Herbert W. Gleason will deliver a lecture on "Alpine Flowers of the Canadian Rockies," in the Massachusetts Institute of Technology Building at 8 P.M. More than one hundred colored lantern slides will be used in illustration.

I understand that in Holland a fine of five dollars is imposed for every brown-tail nest found on a person's property. Why wouldn't this be a good scheme to try here? The Harrison Square Improvement Association deserves special commendation for the thoroughness with which they have covered the territory in their jurisdiction

I find much difference of opinion among local growers as to the best treatment for carnations after taking them from the cutting bench. Some prefer to pot them in 2's or 2½'s and then move them later into shallow boxes, while others put them directly into boxes from the sand. The advocates of the potting system claim that their plants start more quickly and make a better growth, while the others claim that much time is saved and better plants can be secured by boxing them at once and also that plants in small pots dry out unevenly and unless care is exercised in watering, some are sure to suffer either from dryness or over-watering. My own observation is that equally good results are obtained either way, with the advantage of a considerable time saved by direct boxing.

I recently had the pleasure of visiting the establishment of Thomas Cox of Dorchester, my main object being the inspection of some specimen hydrangeas, and was amply repaid for the journey. These plants are now nearly ready for market, with from twenty-five to thirty-five flowers each. Not a blind shoot can be seen and not a stake has been used to make the plants the models of symmetry which they are. Mr. Cox modestly claims that the soil of his locality is especially adapted to hydrangea culture. The plants, I understand, were potted in 11-inch pots last September and brought into heat during December and grown at a temperature of from 55 to 60 degrees through the winter, with a liberal mulch of cow manure in March. I rather fancy that Mr. Cox could furnish a few more points in regard to his treatment of hydrangeas, if he felt so inclined, but, not being endowed with the powers of hypnotism, I had to be contented with viewing the results which speak for themselves. Every grower has his particular pet which he cultivates for the pleasure it affords him, and Mr. Cox is no exception to the rule, his hobby being cypripediums of which he has a collection second to none in this country.

Thomas F. Matthews.

Our frontispiece furnishes a view in one of the orchid houses of Lager & Hurrell at Summit, N. J. In bloom are seen Dendrobium nobile in profusion, interspersed with a number of hybrids. There are also in sight a few Cattleya Schrœderae, Phalænopsis amabilis, P. Schilleriana, Phajus grandifolius, Oncidium Sarcodes and several more. The rapidly growing business done by Messrs. Lager & Hurrell is one of the evidences of the advancement in popularity which the orchid has enjoyed in recent years.

NEWS OF THE CLUBS AND SOCIETIES

NEW BEDFORD HORTICULTURAL SOCIETY

At the regular monthly meeting of this society on April 11, an excellent paper was read by Peter Murray of Fairhaven, on the Lorraine Begonia. Among other things he said:

"In the first place, to grow these Begonias successfully you must have a warm temperature and a close moist atmosphere, and also partial shade. These begonias want a rich, porous soil, composed of turfy loam leaf soil with a sprinkling of sand and bone meal. No nice young growth can be obtained for propagating until May and June. At this season the plants begin to throw up from the bottom, and these young tops root very readily in May and June, and under proper condition grow rapidly through June, July, August, September, and October. A cutting struck in June, if kept shifted as required during the summer, will be a fine bushy plant in a six-inch pot by the first of November, when the plant begins to set buds and become a mass of flower by the end of November. They continue in this abundant bloom through the winter months until May. There is perhaps a little more looseness and grace of habit in the plants raised from leaf cuttings while flowers are borne in denser and stiffer trusses on those raised from stem cuttings. After the flowering period is over the plants may be cut partially back and placed in heat. Young shoots will spring up from the base, and these may be inserted in genial bottom heat and will soon root. The individual leaves in a green and fully developed state may have about half the stalk cut off; the remaining half with leaf attached, are stuck into nice sandy soil in bottom heat and root as quickly as the stems. When rooted, give the plants plenty of light and air and pot them into small pots as soon as opportunity affords. They require no pinching, but as they become large enough give them larger pots."

THE AMERICAN CARNATION SOCIETY

The report of this society will be ready for distribution in a short time and will be sent to paid up members only, so that any who are in arrears or who would like to get this report and are not members should send $2 to Fred Dorner, Jr., Lafayette, Ind., at once.

Messrs. A. H. Hews & Co., Cambridge, Mass., offer for the meeting and exhibition in Boston next January, a cup to the value of $25, for "the best collection of carnations (4 varieties) twenty-five blooms of each" to be shown in separate vases. This prize will be open to all with either seedlings or named sorts and no restrictions as to color.

Any other firm or grower who desires to give special premiums for this exhibition can report them to President Peter Fisher, Ellis, Mass., of to the secretary.

Albert M. Herr, *Sec.*,
Lancaster, Pa.

BUFFALO FLORISTS' CLUB

The first spring flower show of the Buffalo Florists' Club, which was held April 11 to 14 — at the Sweeney Co.'s store — was in every way a success.

Last fall when the matter of a spring show was discussed, it was found that it could not be held without the assistance of rome one else. A proposition from the Sweeney Co. was taken under advisement, and soon agreed to. Charles H. Keitsch was chosen superintendent; a schedule and rules adopted; and dates fixed, and last week the event took place.

The place where the show was held, is a large, well-lighted and airy room in the Sweeney Co.'s department store. Broad stairways, five large passages, and two big freight elevators, gave ample opportunity for the admission of plants and people. Admission to the exhibition was free to the public — the prizes were liberal, the sum offered by the firm for this purpose amounting to well over one thousand dollars.

The schedule covered two classes, plants and cut flowers. The plant class was divided into fourteen sections, viz: lilies, azaleas, rhododendrons, roses, tulips, hyacinths, lily of the valley, spiræa, orchids, begonias, stove and greenhouse plants, and forced shrubs. And in arrangements, stagings for effect and plant baskets, — in cut flowers — roses and carnations were shown.

In the plant classes everything was of the highest quality; the arrangements were beautiful and striking in effect. In the cut-flower class the entires were numerous, and many of the blooms were innovations even to those in the trade. A fine orchestra enlivened the show with choice selections. The attendance was good and highly satisfactory to all concerned, and the weather was just right.

AWARDS FOR PLANTS

The Wm. Scott Co., 11 firsts, 14 seconds, 14 thirds; Chas. Sandiford, 14 firsts, 13 seconds, 13 thirds; L. H. Neubeck, 7 firsts, 4 seconds, 3 thirds; Lakeview Rose Gardens, 1 second, 1 third; George Urban, 2 firsts, 2 seconds; Wasson Floral Co., 1 first.

AWARDS FOR FLOWERS

The Wm. Scott Co., 2 firsts, 4 seconds, 2 thirds; L. H. Neubeck, 1 first, 1 second; H. Keitsch & Son Co., 2 firsts, 1 second, 1 third; C. T. Guenther, 1 first, 1 second; Wm. Ehmann, 3 firsts, 2 seconds; Lakeview Rose Gardens, 4 seconds, 2 thirds; Chicago Carnation Co., 3 firsts, 3 seconds, 2 thirds; Gus Schoenfeld, 1 third.

Many out of town florists were seen during the week, among them being Robt. Bard, Syracuse; P. R. Quinlan Syracuse; Stephen Rebstock, Waynesville, N. C.; Wm. Ehmann, Corfu; Thos. Mansfield, Lockport; Chas. Guenther, Hamburg, N. Y.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The club debaters had a rare good time at the monthly meeting on Tuesday evening, April 18, over that prolific subject — the "running out" of varieties. The rose growers, under the leadership of such experts as Alex. Montgomery and W. H. Elliott, completely routed the opposition and showed that, under the methods of propagation and culture prasticed, the rose has been steadily improving and that if certain once-popular varieties have been dropped, it has been for other reasons than because they were deteriorating. The carnation men made a half-hearted stand for their theory that varieties of carnations do run out under so-called forcing conditions, but were unable to break the force of the assertion that old varieties of carnations are retired simply because better ones are constantly coming up to take their place. We are sorry that we have not the space in which to give the interesting dicsussion more in detail and we may revert to it in a later issue. On the request of Kenneth Finlayson a committee was appointed to correspond with the Royal Horticultural Society of London, with a view to co-operation in developing an international sentiment against renaming of varieties. Mr. Farquhar's proposed revision of the methods of making awards at the club exhibitions was adopted. An invitation to visit and inspect the pottery establishment of A. H. Hews & Co., on Saturday, April 29, was accepted. Julius Heurlin was elected to fill the vacancy on the executive committee caused by the resignation of Henry Wild. It was announced that Professor Jackson would give a talk on peonies at the May meeting, and that a glorious field day in June is contemplated. Secretary Craig showed a vase of superb candidum lilies grown from genuine north of France bulbs. Upwards of sixty members were in attendance. Frank Cannell entertained the club with two bass songs, grandly sung.

NOTE

The Society of Indiana Florists held a spring show on April 5, and quite a good display was brought out.

BOWLING AMONG THE ANCIENTS

A very interesting paper was read recently before the Dreiburg Society of Philadelphia by Professor Robhood, of the chair of prismatic anatomy in the University of Kensington. His lecture has been deemed of sufficient importance to be made public.

The professor has made an exhaustive study of the subject of bowling, from the time of its inception in Egypt, during the reign of Emperor Hatrack the Fourth, B.C. 7,963, down to last night's games, and his labors have resulted in greatly enriching the treasury of bowling lore. He has spent four years chiefly amid the ruins of ancient Greece and Carthage, and his investigations show that bowling was highly popular among the peoples who once inhabited those shop-worn countries. Light has also been thrown on matters that have long puzzled the wisest savants. Hieroglyphics that have for ages remained undecipherable, even to Professor Hillprecht, are now known to be bowling scores, as to tell the truth, any one with half an eye should have been able to see long ago. The professor made a number of incisions in the earth that yielded some remarkable disclosures.

At one place, near the ruins of Philopolis, he discovered the rigid figure of a man, in the attitude usually assumed after delivering the ball, who had probably been standing there thousands of years, petrified, no doubt, with astonishment that one of his choicest strike balls had yielded nothing but a measly split.

At another place, at a great depth, was found an incongruous mass of lignum-vitæ balls, human skeletons, Dayton pins, soused pigs' feet, schwartzbrod mit kimmel, Dutch mustard and hard radishes, near which was a pryamid of Bergner & Engel sextiles, showing conclusively that the bowlers of that age attended stricly to business, and seldom went home to meals.

The professor was unable to tell from his experience among the ancient records how to prevent the modern evil of grafting in picking out sides, and the doctor left with a very dissatisfied expression on his face. From private sources, however, we are given to understand that the professor has since come to the conclusion that a system of distance handicapping was in vogue from the position of the skeletons in the act of delivering the ball, leading to the inference that the ancients were thoroughly conversant with *the slide over the line* as an antidote to *the graft in picking out sides.*

Further research will no doubt reveal other interesting coincidences in the way of "ringers" and "dark horses" and the next appearance of the professor is being eagerly awaited in bowling circles, as it will no doubt tend to settle many disputed points that have recently come very near disrupting some harmonious and life-long friendships.

THE MOTH PROBLEM

SECTION OF MASSACHUSETTS STATUTE ON WHICH IS BASED FIGHT AGAINST THE BROWN-TAIL MOTH

"Said board (Health Board) shall order the owner or occupant of any private premises, at his own expense, to remove any nuisance, source of filth or cause of sickness found thereon, within twenty-four hours, or within such other time as it considers reasonable, after notice; and the owner or occupant shall forfeit not more than twenty dollars for every day during which he knowingly violates such order."

As a result of the action of the Board of Aldermen of Waltham, Mass., in making an additional appropriation of $1000 to defray expenses in fighting the brown-tail moth the Board of Health is making arrangements towards putting five gangs of men to work immediately removing the nests from trees.

In compliance with a request from the State Board of Health of Massachusetts, the Metropolitan Park Commission is now having the moth nests destroyed on their diffcrent reservations. The work at Waverley Oaks Park has practically been completed, and other sections are now being looked after.

The Boston Board of Health has at last waked up and declared the brown-tail moth and its nests a nuisance and cause of sickness and the police have distributed notices to this effect. Owners are notified that they must cause the immediate destruction of all moths and nests found on their premises, otherwise legal steps will be taken to enforce the law. This is good news, and if current belief is correct it is due to the activity of a women's club.

City Forester William Doogue has collected over eighty barrels of brown-tail moth nests from the public trees of the city of Boston. Each barrel holds about 4,000 nests; each nest contains on an average 400 young caterpillars. This gives a total of 128,000,000 crawlers, each with a capacity to eat green things and an ability to inflict torture on humanity such as no words will fittingly describe.

The following poster has been distributed among the inhabitants of Watertown, Mass.—

Order of
BOARD OF HEALTH
to
Exterminate Brown Tail Moths on Private Property

By Authority of Sections 65 to 69, both inclusive of Chapter 75 of the Revised Laws the Board of Health of the Town of Watertown Do hereby adjudge the *Brown Tail Moth* to be a nuisance and cause of sickness and dangerous to the Public Health.

All owners or occupants upon whose premises the Moth or its Nests may be found are hereby *ordered to remove and destroy the same forthwith.*

Vivian Daniel, M. D., Chairman.
March 13th, 1905.

THE GYPSY MOTH IN PROVIDENCE

The Rhode Island College of Agriculture and Mechanic Arts issues the following:

Among the serious insect problems which the people of the State will have to face very soon is that of the Gypsy moth. There is a healthy colony of the insects in the western part of the city of Providence, and eggs enough have been laid in this section waiting for warm weather to hatch out to stock the whole State. Judging by the history of the insect in Massachusetts there is likely to be a rapid and steady increase of the insect unless measures are taken to check it. The sooner this check is applied the cheaper it will be. Two or three thousand dollars judiciously applied this spring will do more than $10,000 can accomplish if the work is deferred for a year or two. The history of the fight against the insect in Massachusetts should be a lesson to this State. The work was deferred too long, but by hard work and the appropriation of large sums of money the insect was brought under control. It was so nearly exterminated that the people thought it useless to make further appropriations to carry on the work. The fight had to be abandoned when victory was in sight, and the result is that the pest is as numerous as it ever was.

The insect lives over winter in the egg state. This is the point in its life history in which it is most cheaply destroyed. The application with a brush of a mixture of creosote and coal tar will destroy the eggs. As each cluster contains from 500 to 1,000 eggs, a little effort expended at this time will prevent the hatching out of a large number of caterpillars.

It would seem that this is an opportunity when the city and State should join hands for the common good. If the insect is permitted to spread it will be only a very short time before it will reach Roger Williams Park. The city must then expend a large amount of money in protecting the trees and shrubbery or else it must stand by and see the park ruined. The colony is a menace to the whole State, for while it is present it may at any time be distributed to other sections.

SALEM'S WAR UPON THE BROWNTAIL

At this time when the brown-tail moth has followed the gypsy moth with its fierce destructiveness, until the infested cities and towns have declared its presence a public nuisance, and by official action will compel the removal of nests by owners or tenants, it may be interesting to consider what has been accomplished by intelligent coöperation in the city of Salem, Mass., where the old-time gardens, the fine growth of young trees and the noteworthy elm, black walnut, maple and chestnut of luxuriant shade, the shrubbery, and even the market crops have been threatened with utter ruin.

Four years ago the *Salem News* offered prizes which enlisted the boys and girls in hunting down this pest, and the members of the women's clubs volunteered to count the deposits. These came in paper bags, containing a few scores or hundreds, in boxes of larger dimensions and big jute bags of a capacity of thousands. They were received at the shade-tree department house and, after the counting under the superintendence of a representative of the *Salem News*, they were gathered into barrels and burned.

When the result in 1902 showed the destruction of over 36,000 nests the satisfaction of the prize winners was scarcely less than that of those interested in forestry and horticulture, who realized that great damage had been averted. But to the sorrow of the Commonwealth, the prolific brown-tails demonstrated themselves alarmingly, and in 1903 more than 140,000 nests were destroyed in Salem, and in 1904 nearly 175,000 and still fresh nests showed upon shade and fruit trees, and in the wooded outskirts of the city.

The vigilance could not be relaxed and the youthful hunters began this season's collection while the snow was deep in gardens and fields. Thirty-eight depositors appeared at the opening of the contest, increasing daily, until nearly two hundred were enrolled. It was felt too much to again accept the volunteer work of the clubwomen, and two men were employed for counting, with additional help upon the last days that all nests might be destroyed before a possibility occurred of the caterpillars leaving the nests.

In the contest which closed March 25, over one million nests were destroyed; these were equal to one thousand bushels and one and one-half barrels of kerosene were used to assist in the cremation. The city employee who has so zealously and effectively performed this part of the work has become known along the North Shore as "Richard Davis, lord high executioner" and is believed to be responsible for the destruction of more souls of a bug nature than any other man in the world.

Stimulated by this public movement the citizens are carrying out the good work in their own premises, and it is believed the results will greatly lessen the destruction feared from the universal occupation of this pest.

In Peabody this work has been inaugurated by the Improvement Society, and in Beverly and Danvers the school children have been enlisted by the efforts of the club women. A. G. Cousins.

CLEVELAND TO BE FOREST CITY AGAIN

Arrangements for the Arbor Day celebrations to be held in Cleveland, O., under the auspices of the city forestry division of the park department, Friday April 21, were completed at the regular weekly meeting of the heads of the various divisions of the department last week.

There are to be six celebrations in as many different places. Gov. Myron T. Herrick, Mr. L. E. Holden, and other Cleveland men will preside over the exercises. Locations on these streets for the exercises will be selected contiguous to the schools, and the school authorities are to be asked to contribute to the success of a new plan, to popularize the retreeing of Cleveland. The celebration, aside from being an arbor day celebration, will include a practical demonstration of forestry work.

One hundred trees are to be planted on each street. The actual planting will be done under the supervision of Forester Harvath and his five tree wardens. The wardens are now undergoing a course of training by Mr. Harvath. The plan is to take the celebration of the day out of the idea of theory and demonstrate the excellent results that will follow a practical use of forestry knowledge, the aim being to popularize arbor day and make it one of the big annual events of the city and in this way secure a rejuvenation for Cleveland of the name of "Forest City."

A. L. Hutchins.

Two plants of Ampelopsis Veitchii were introduced to this country forty-five years ago. W. R. Smith was the first to distribute seed and it came from these plants. The form introduced in Boston was handsomer and less gross in habit. F. L. Harris propagated this variety from cuttings and these have never got that gourmand growth that has characterized the stock raised from seed. Mr. Smith attributes the popularity of this vine under the name of Boston ivy to the "daring audacity of Boston conceit aided and abetted by visitors to that city" who admired its beauty as there displayed on public and private buildings.

Outdoor Art and Craft

R. M. Bruce is having laid out a park at Indian Field, which when completed, he intends to present to the town of Greenwich, Conn.

Garden plots are to be laid out for the use of the scholars of the grammar schools in Waterbury, Conn., in the practical study of gardening.

James Carnes of West Brookfield, Mass., has been given the contract for the care of the station grounds on that section of the N. Y. Central Railroad.

Through the recommendations of Superintendent Wirth, the employees of the Hartford, Conn., Park Department have been given an increase of wages, amounting, in the aggregate, to $1,300 annually.

The Massachusetts Metropolitan Park Commission has asked for an appropriation of $150,000 with which to increase its holdings on Nantasket Beach and along the unrivalled cliff drive known as Jerusalem Road. Their request should be promptly granted.

Charles J. Brown, of the Brown Brothers' nursery firm, has offered to furnish Penfield, N. Y., with eleven miles of shade trees for the Dugway road, providing means can be found to set them out properly. The arrangements will be made at once to set the trees.

Chase Brothers & Company have purchased nine acres of land in Brighton, N. Y., for the extension of their nursery business. Two frost-proof packing and storage buildings will be erected, with a combined floor space of 40,000 sq. ft., also an office building 60×100. These structures are to cost $50,000.

Rhododendrons, in many localities where they ordinarily winter in good order, are showing the effects of the long-sustained cold and other characteristics of one of the severest winters ever experienced. Foliage is generally more or less hurt and occasionally large branches appear to be quite dead. Dryness at the roots undoubtedly helped complete the damage.

DESTROYING POISON IVY

"Frequent inquiries are made as to the best method of exterminating ivy. The problem of extermination is one which depends upon how much there is to be exterminated, and under what conditions the plant is growing. Where it covers rather extensive areas of grass land, the best method would consist in plowing up the soil and planting some cultivated crop until the ivy is eliminated.

"If, however, it is desired to exterminate it from a tree, building, or stone wall, as is more often the case, the most rational and practical method is by chemical treatment.

"There are various chemicals which can be employed to destroy plants, but the most efficacious are the compounds of arsenic. According to our experience, arsenate of soda is one of the most satisfactory compounds to use, as it is tolerably quick and permanent in its action. Three gallons of water containing eight ounces of arsenate of soda will suffice to kill a small ivy plant on a tree.

"A mixture containing one part of white arsenic and two parts of sal soda at the rate of eight ounces to three gallons of water, can be used with similar results. In both cases it is better to use hot water to dissolve the chemicals. If the ground is uneven around the ivy, it is best to dig a superficial trench, thus preventing the solution from spreading and killing the surrounding grass."—*From report of Mass. State Board of Agriculture.*

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Our selected strain of **SEMPLE'S LATE ASTERS** is a money-maker. Seed saved from the finest and largest double flowers, solid colors, with long, stiff stems, which command top-notch prices. Try them with following colors: Lavender, Pink, Purple, Red, White and mixed, per trade packet, 30c; per oz., $1.00.

For select list of **FLOWER SEEDS, BULBS, SUPPLIES** and everything for the florist see our Wholesale List — mailed on request.

HENRY F. MICHELL CO., 1018 Market St., PHILADELPHIA, PA.

In writing to advertisers, kindly mention HORTICULTURE

ON CAPE COD

The best example I ever saw of what can be done by an enthusiast with perseverance, under very unfavorable circumstances, is the estate of Mr. Rothwell at Cotuit on the shore of Cape Cod. When Mr. Rothwell purchased this estate a few years ago it was little more than a barren waste, but this can hardly be realized when the place is seen now, appearing as it does more as if situated a hundred miles inland than an artistically disguised sand-bank on the shore of Cape Cod.

In beginning the transformation Mr. Rothwell was obliged to cover nearly the entire surface with loam and manure, but the results show that, despite the enormous expense, it was money well spent. There now can be seen a great variety of trees, evergreen and deciduous, besides shrubberies and borders of herbaceous plants, none of which indicate anything foreign in their surroundings. The planting was done in such a manner that one group acted as a windbreak and nurse to the other, until now many things that would not be considered suitable for such an exposed situation thrive wonderfully.

Insect pests in their most aggravated form have to be combated and this is done by Mr. Rothwell's gardener with such success that their evil work is scarcely noticeable. Mr. Rothwell keeps in almost constant operation spraying appliances and equipment of the most approved pattern from early in spring until late in the summer.

On this estate when Mr. Rothwell bought it there were several large pools of fresh water; these by great ingenuity have been converted into ponds wherein have been placed several varieties of water lilies and along the edges trees and shrubs are planted with such good taste and discrimination that the whole forms one of the most charming features of an ideal summer home.

David McIntosh.

HOW TO PUT OUT FOREST FIRES

At a conference of Massachusetts town forest fire wardens held at the American House, Boston, recently, William P. Fox, superintendent of State forests in New York, gave an address on how to put out forest fires. Mr. Fox is the author of the New York forest fire law which is said to be the most effective one of its kind in the country. For twenty years he has had charge of the prevention of fires in that State. He told of the provisions of the law of his State, of the various causes of forest fires, and the methods resorted to to extinguish the flames.

The best time of day in which to contest the progress of an extensive fire is in the early morning or at nightfall. At evening, when the sun is down and the wind has ceased, their progress can be controlled. The cool night air and falling dew deaden the flames and lessen the mass of drifting smoke. For this reason, he said, we now keep our men on the ground both night and day.

GREENHOUSES BUILDING OR PROJECTED

Westbrook, Me. — B. Elwell, one house.

Toledo, O. — Krueger Bros., range of houses.

Houston, Tex. — A. W. Hawkins, house 20 × 100.

Fulton, Ill. — Hills & McKenzie, range of houses.

Tampa, Fla. — Tampa Floral Co., range of houses.

Nashville, Tenn. — Lischey Nurseries, house 20×100.

Pittsburg, Pa. — J. B. Murdock & Co., range of houses.

Baltimore, Md. — C. Erdmann, five houses, 20×100.

Ansonia, Conn. — E. J. Hill, range of vegetable houses.

Lancaster, N. Y. — W. J. Palmer & Son, three houses.

South Framingham, Mass. — Alex. McKay, range of houses.

Ashbourne, Pa. — P. A. B. Widener, range of plant houses.

Cambridge, Mass. — R. H. Moltman, range of houses rebuilding.

Woodhaven, N. Y. — William Endgren, three houses, each 20×100.

McKeesport, Pa. — McKeesport Floral Co., two houses, each 25×300.

Minneapolis, Minn. — Carlson & Sandberg, four houses, each 18×120.

Kennett Square, Pa. — Lawrence Thompson, four houses, each 20×100.

Indianapolis, Ind. — Smith Young Co., will erect 30,000 sq. ft. of glass this summer. Baur and Smith will also add 15,000 ft. of glass to their plant this season.

Toronto, Ont. — Toronto Floral Co., five houses. P. Fogarty & Sons, two houses. J. H. Dunlop, three houses. Grohba & Wandry, three houses.

NEWS NOTES

Mr. Jno. Bertermann of Indianapolis, has left for two months trip to Europe.

Sidney Smith has returned to Indianapolis from Texas, much improved in health.

George Fellouris was arrested in Stockbridge, Mass., on April 13, and fined $20 and costs, under the law prohibiting metropolitan fern pickers from invading the Berkshires. Four hundred pounds of ferns were confiscated.

Mr. Cowell, at the Buffalo Botanic Garden, is busy getting his new plants from the Republic of Panama into shape. His recent visit to the Isthmus resulted in the collection of over five hundred species. Among other good things brought home, are two two new palms, two new Carludovicas, several orchids, some fine spathophyllums, alocasias, philodendrons and anthuriums, some beautiful bignoniaceous climbers, and many rare things peculiar to the country. He had a new experience in collecting "El Spirito Sancto," and found considerable excitement while exploring some of the colder portions of the country. According to his statements, he found the fauna fully as novel as the flora. He is as brown as a berry and improved in health by his trip.



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Write for special "SURPLUS LIST" of trees, shrubs and herbaceous plants. Very low prices for extra quality stock. All Hardy.

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Poinsettia

Strong stock plants from bench
$10.00 per 100

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A NEWPORT FORECAST

What kind of a season are we going to have? How often this question is asked, but the answer is a matter of so much importance and consequence to Newport and its inhabitants that there is little wonder it is being asked so often, and to those in no other line of business is the answer of more moment than to the growers of plants, fruits, and flowers, not only of Newport itself but to the big growers outside also, who in a measure contribute to the supply. A poor Newport season means to these growers and dealers poor business and a consequent hard pulling to make ends meet, whereas on the other hand a good season makes much business for everybody and for the florist in particular. If all signs fail not the coming summer will be classed a good one, and cupid, who is one of Newport's best friends, is already busy in behalf of the old town.

D. MCINTOSH.

E. J. Hill has started in the florist and market gardener business at 40 Hull street, Ansonia, Conn.

10,000 KAISERIN
ROOTED CUTTINGS
$15.00 Per 1000
Immediate Delivery
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1612 Ludlow St., PHILADELPHIA

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A Fine Lot of AZALEAS in Great Variety
A Large Assortment of Ferns for Jardinieres
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Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

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" Extra	20.00 to 25.00	15.00 to 20.00	35.00 to 40.00	12.00 to 16.00
" No. 1	15.00 to 20.00	12.50 to 15.00	25.00 to 30.00	8.00 to 10.00
" Lower grades	3.00 to 8.00	8.00 to 10.00	12.50 to 15.00	2.00 to 6.00
Bride & Maid — Fan. & Sp	6.00 to 8.00	..... to 10.00	..... to 15.00	6.00 to 8.00
" " Extra	5.00 to 6.00	..... to	12.50 to 15.00	4.00 to 6.00
" " No. 1	3.00 to 4.00	6.00 to	10.00 to 12.00	2.00 to 4.00
" " Lower gr	1.00 to 2.00	..... to	6.00 to 8.00	1.00 to 2.00
Liberty, Fancy & Special	8.00 to 10.00	..... to 10.00	25.00 to 30.00	15.00 to 25.00
" extra	6.00 to 8.00	..... to	15.00 to 25.00	8.00 to 10.00
" No. 1	4.00 to 6.00	6.00 to	12.50 to 15.00	2.00 to 4.00
" Lower grades	2.00 to 3.00	..... to	10.00 to 12.50	..... to .....
Golden Gate } Best	6.00 to 8.00	..... to 10.00	12.00 to 15.00	6.00 to 8.00
Ivory } Medium	4.00 to 5.00	6.00 to	8.00 to 10.00	2.00 to 4.00
Chatenay } Culls	1.00 to 2.00	..... to	5.00 to 8.00	..... to .....
CARNATIONS				
Fancy Class	2.50 to 3.00	..... to 5.00	6.00 to 8.00	3.00 to 5.00
General Class	2.00 to 2.50	..... to	5.00 to 6.00	2.00 to 3.00
Lower Grades	1.00 to 1.50	3.00 to	3.00 to 4.00	1.00 to 2.00
VIOLETS				
Special	.50 to .75	..... to	..... to	.75 to 1.00
General	.25 to .35	..... to	..... to	.25 to .50
Single	.50 to .75	..... to	..... to	.50 to .75
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	50.00 to 60.00	50.00 to 60.00
Cypripediums	12.50 to 18.00	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 12.50	12.50 to 15.00	10.00 to 12.50	8.00 to 12.00
Lily of the Valley	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Hyacinths	..... to	..... to 3.00	2.00 to 3.00	2.00 to 4.00
Paper White Narcissus	..... to	..... to 3.00	..... to	..... to .....
Daffodils	2.00 to 3.00	..... to	..... to	1.00 to 2.00
Tulips	1.50 to 4.00	2.00 to 5.00	..... to	2.00 to 3.00
Callas	6.00 to 10.00	..... to	..... to	12.00 to 16.00
Freesia	..... to	..... to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	3.00 to 8.00	..... to	2.00 to 4.00	2.00 to 4.00
Sweet Peas	.50 to .75	.50 to .75	1.00 to 3.00	1.00 to 1.50
Adiantum Cuneatum	.75 to 1.00	..... to 1.25	.75 to 1.00	..... to 1.00
" Crowcanum	..... to	..... to	1.25 to 1.50	..... to 1.50
" Farleyense	..... to	..... to	..... to	..... to 16.00
Smilax	12.50 to 15.00	..... to 15.00	20.00 to 25.00	16.00 to 20.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	35.00 to 50.00	..... to 50.00
" " bunches	25.00 to 35.00	25.00 to 75.00	35.00 to 50.00	35.00 to 50.00
" Sprengeri "	25.00 to 30.00	..... to	35.00 to 50.00	..... to 50.00
Gardenias	16.00 to 25.00	..... to	15.00 to 20.00	..... to .....
Lilac per bunch	.35 to 1.00	..... to	..... to	.75 to 1.00

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

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CUT-FLOWER MARKET REPORTS

BOSTON The state of the market is one of expectancy. By the time this reaches our patrons they will know more about it than we now do and, moreover, they will, we trust, be much too busy to read market reports. So we desist and shall restrain our pen until next week's issue when we hope to be able to tell everything of genuine interest concerning the Easter business.

CHICAGO Conditions have improved somewhat since last report, occasioned by a slight contraction in receipts. American Beauties continue in heavy supply and quality is excellent. Teas have been fully equal to the call, and everything of good quality easily disposed of. Strength in carnations surprised the commission men this week. Demand from all round brought about a clean-up of the supply early each day, values advancing slightly. Returns averaged best on colored sorts. Immense receipts of southern outdoor bulb stock gives to the market a downward impetus, however, fancy double tulips at 4 to 5 cents are in strong request, but offered only sparingly. Lilies are abundant, and callas a glut. Arbutus again disputes with violets. A good active market exists for orchids. Green goods are equal to any demand.

LOUISVILLE Business favorable; stock generally in demand. Carnations in short supply, also roses to some extent. Plants in fair demand and the supply offered is of good quality.

NEW YORK Cold weather has cut off the supply sufficiently to second the influence of approaching Easter in stiffening prices. Beauties are in larger proportionate supply than other roses and there is a good supply of Jacq's and Brunners. Violets now have the distinction of being the scarcest article in the market and prices have climbed accordingly. General trade rather quiet at opening of Easter week. The outlook is entirely dependent on the weather we shall get.

PHILADELPHIA Things brightened up very much towards end of week and to-day, Monday, a decided rush is on with prices jumping. The buyers are stabbed to the heart, but they are coming around with less mortality than might have been expected The cool weather has been a great blessing both for the cut flower grower and the plant man. Beauties are of excellent quality and prices good. The same may be said of other roses although Brides and 'Maids are not quite as good as they might be. The carnation market is now in better shape with quality very good. Plant market in fine condition, most of the growers being sold out a week ahead. Azaleas scarce, but plenty of hydrangeas spiræas, and other stock, and there will be little left on Saturday night. On the whole, a good Easter here is certain.

PITTSBURG The week preceding Easter, notoriously the dullest of the season, did not change its reputation this year. It has been a raging battle since Saturday between spring and winter for supremacy and winter won out with an abundance of snow and frost. On Sunday morning the thermometer went down to 27, but so far as I can learn at this writing, vegetation and fruit trees are not materially injured as they were not far enough advanced. The conditions have been wholly unsuited to out door selling, and on few occasions have the market men been able to display their flowers. The usual shrinkage of shipments is also visible, but this is to be expected, and as soon as Easter prices prevail the deficiency will be more than made up.

A good opportunity to secure bargains in orchids and other choice greenhouse stock is offered in the auction sale of Sander & Sons, St. Albans, Eng., which takes place at Cleary's Horticultural Hall, 62 Vesey Street, New York, on Tuesday, April 25.

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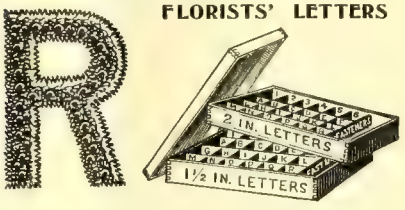
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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending April 15 1905	First Half of Week begining Apr. 17 1905
ROSES		
Am. Beauty, fan. and sp	12.00 to 20.00	15.00 to 25.00
" extra	8.00 to 10.00	10.00 to 15.00
" No. 1	5.00 to 8.00	6.00 to 8.00
" Lower grades	1.00 to 2.00	2.00 to 3.00
Bride and Maid, fan. and sp	4.00 to 6.00	6.00 to 8.00
" " extra	3.00 to 4.00	5.00 to 6.00
" " No. 1	2.00 to 2.50	2.00 to 4.00
" " Lower gr	1.00 to 1.50	1.50 to 2.00
Liberty, fan. and sp.	10.00 to 20.00	20.00 to 25.00
" extra	5.00 to 8.00	6.00 to 12.00
" No. 1	2.00 to 5.00	3.00 to 4.00
Meteor	1.00 to 2.00	1.00 to 2.00
Golden Gate, Ivory, Chatenay Best	4.00 to 6.00	5.00 to 8.00
Golden Gate, Ivory, Chatenay Medium	2.00 to 4.00	3.00 to 4.00
Golden Gate, Ivory, Chatenay Culls	1.00 to 1.50	1.00 to 2.00
CARNATIONS		
Fancy Class	2.00 to 3.00	3.00 to 6.00
General Class	1.50 to 2.00	2.00 to 3.00
Lower Grades	1.00 to 1.25	1.50 to 2.00
VIOLETS		
Special	.50 to .75	1.00 to 1.25
General	.35 to .50	.60 to .75
Single	.... to	.... to ....
ORCHIDS		
Cattleyas	50.00 to 60.00	.... to 60.00
Cypripediums	.... to	.... to ....
BULBOUS		
Lilies	3.00 to 6.00	5.00 to 10.00
Lily of the Valley	1.00 to 4.00	1.50 to 4.00
Hyacinths	2.00 to 3.00	1.00 to 3.00
Paper White Narcissus	.... to	.... to ....
Daffodils	.25 to 2.00	.25 to 2.00
Tulips	.... to	.... to ....
Callas	6.00 to 10.00	6.00 to 10.00
Freesia	.... to	.... to ....
MISCELLANEOUS		
Mignonette	1.00 to 3.00	1.00 to 3.00
Sweet Peas	.50 to .75	.50 to 1.00
Adiantum Cuneatum	.50 to 1.00	.50 to 1.00
" Croweanum	.... to 1.50	.... to 1.50
" Farleyense	10.00 to 15.00	10.00 to 15.00
Smilax	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" " bunches	20.00 to 35.00	25.00 to 35.00
" Sprengeri "	15.00 to 25.00	15.00 to 25.00
Gardenias	6.00 to 8.00	6.00 to 8.00
Lilac, per bunch	.25 to .50	.25 to .50
Jacq	.... to	.... to ....
Brunner	.... to	.... to ....

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Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI April 10	BALTIMORE April 3	BUFFALO April 18	PITTSBURG April 18
ROSES				
Am. Beauty, fan. and sp.	35.00 to 45.00	25.00 to 35.00	30.00 to 40.00	50.00 to 65.00
" extra	25.00 to 30.00	15.00 to 20.00	20.00 to 25.00	40.00 to 50.00
" No. 1	15.00 to 18.00	10.00 to 12.50	10.00 to 15.00	20.00 to 25.00
" Lower grades	4.00 to 5.00	3.00 to 6.00	..... to	6.00 to 10.00
Bride and 'Maid, fan and sp.	5.00 to 6.00	.... to	12.00 to 15.00	5.00 to 8.00
" " extra	..... to 4.00	7.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" " No. 1	..... to 3.00	.. to 6.00	..... to	2.50 to 5.00
" " Lower gr.	1.50 to 2.00	4.00 to 5.00	..... to	2.00 to 3.00
Liberty, fan. and sp.	6.00 to 8.00	..... to	15.00 to 20.00	5.00 to 12.00
" extra	5.00 to 6.00	.... to	10.00 to 15.00	4.00 to 10.00
" No. 1	4.00 to 5.00	.. to	..... to	3.00 to 5.00
" Lower gr.	..... to 3.00	.. to	..... to	2.00 to 4.00
Golden Gate) Best	..... to 8.00	8.00 to 10.00	..... to	6.00 to 10.00
Ivory) Medium	4.00 to 6.00	6.00 to 7.00	..... to	6.00 to 8.00
Chatenay) Culls	..... to 3.00	4.00 to 5.00	..... to	8.00 to 10.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	3.00 to 4.00	2.00 to 2.50	5.00 to 6.00	3.00 to 4.00
General Class	2.00 to 3.00	1.50 to 2.00	2.50 to 4.00	2.00 to 3.00
Lower Grades	1.00 to 1.50	1.00 to 1.25	..... to	1.50 to 2.00
VIOLETS				
Special	..... to .50	.. to	..... to	.75 to 1.00
General	..... to .35	25 to 40	1.00 to 1.25	.50 to .75
Single	..... to	..... to	..... to	25 to .30
ORCHIDS				
Cattleyas	..... to	.... to	..... to	.... to ....
Cypripediums	..... to	.... to	..... to	.. .. to .....
BULBOUS				
Lilies	12.50 to 15.00	6.00 to 12.50	12.00 to 15.00	12.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	4.00 to 6.00
Hyacinths	2.00 to 3.00	1.50 to 2.50	3.00 to 6.00	6.00 to 15.00
Paper White Narcissus	2.00 to 3.00	2.00 to 3.00	..... to	4.00 to 6.00
Daffodils	1.00 to 2.00	25 to 1.00	3.00 to 4.00	3.00 to 4.00
Tulips	2.00 to 3.00	.. to ..	3.00 to 4.00	4.00 to 6.00
Freesia	..... to	.50 to 1.50	.... to	.... to .....
Callas	6.00 to 8.00	..... to	8.00 to 12.00	8.00 to 15.00
MISCELLANEOUS				
Mignonette	..... to	2.00 to 3.00	3.00 to 5.00	4.00 to 8.00
Sweet Peas	.... to .50	.50 to .75	1.00 to 1.50	1.00 to 1.25
Adiantum Cuneatum	.... to 1.00	... to 1.00	.75 to 1.50	1.25 to 1.50
" Croweanum	.... to	.... to	..... to	.... to .....
" Farleyense	..... to	.... to	..... to	.... to ....
Smilax	12.50 to 15.00	15.00 to 20.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	50.00 to 60.00	40.00 to 50.00
" bunches	..... to 35.00	.... to	25.00 to 50.00	20.00 to 40.00
" Sprengeri "	25.00 to 35.00	.... to	..... to	40.00 to 50.00
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	.... to	..... to	2.00 to 2.50

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Murdoch J. B.	713
Niessen Leo Co.	712
Peacock L. K.	699
Pennock Samuel S.	711-712
Perkins John J.	715
Pierson A. N.	698
Pierson F. A.	698
Pierson F. R. Co.	696
Pierson-Sefton Co.	722
Phila. Cut Flower Co.	712
Pittsburg Cut Flower Co.	715
Pittsburg Florist Ex.	715
Pye R. C.	698
Rawson W. W. & Co.	718
Raynor John I.	714
Reed & Keller	713
Reid Edward	712
Remberg Peter	713
Reuter S. J.	698
Robinson H. M. & Co.	712
Roehrs Julius	711
Rolker August & Son	699
Sander & Sons	711
Schillo Lumber Co.	720
Scollay John A.	721
Schlegel & Fottler Co.	718
Scott John	711
Scott Robt. & Sons	711
Seele H. D.	698
Sharp Partridge & Co.	720
Sheridan W. F.	714
Siebrecht & Sons	700
Siggers E. G.	721
Skidelsky S. S.	698
Smith Charles	715
Smith H. P. Co.	711
Smith Wm. C.	698
Standard Plate Glass Co.	720
Stearns A. T. Lumber Co.	720
Sutherland Geo. A. Co.	712
Suzuki & Iida	711
Sylvester H. H.	721
Situations and Wants	718
Thorburn J. M. & Co.	718
Thorn Hedge Greenhouses	711
Traendly & Schenck	715
Ure J. C.	699
Vaughan's Seed Store	718
Waban Rose Conservatories	700
Walsh M. H.	699
Ward Ralph M. Co.	718
Weber H. & Sons	698
Welch Bros.	713
Weiland & Risch	713
Wietor Bros.	713
Winterich C.	699
Young John	714
Young & Nugent	715
Young Thos. Jr.	713
Young A. L. & Co.	715

Buyers' Directory and Ready Reference Guide

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages

ACCOUNTANT.
Robert J. Dysart, 28 State St., Boston

AGRICULTURAL IMPLEMENTS.
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ANGLE LAMP.
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Samuel C. Moon, Morrisville, Pa.
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Brown Bag Filling Machine Co., Fitchburg, Mass.

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Suzuki & Iida,
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36 Cortlandt St., New York
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BULB FLOWERS.
W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

CALIFORNIA PRIVET.
Charles Black, Hightstown, N. J.
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Variegated Lawson, White Lawson, Daheim, Fiancee Cardinal, Fred Burki, and Victory

Des Plaines Floral Co., Des Plaines, Ill.
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H. Weber & Sons, Oakland, Md.
White Carnation, My Maryland.
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Chicago House Wrecking Co., Chicago, Ill.
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HARDY HERBACEOUS PLANTS.
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Vaughan's Seed Store, Chicago and New York.
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in pots $9 per doz.; 50 plants at $ 60 each; 100 plants at $ 50 each; 500 plants at $ 45 each; 1000 plants at $ 40 each Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on Hudson, N. Y.
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OBCONICA PRIMROSES.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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ORCHID FLOWERS.
James McManus, 50 W. 30th St., New York.

PANSIES.
100,000 now in bloom, extra large field-grown plants They are the kind that sell. $2.00 100, $20 00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

PATENTS.
E. G Siggers, Washington, D. C.
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Hardy Roses, H. T. Roses and Ramblers.
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
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C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
John N. May, Summit, N. J.
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Eastern Nurseries, Jamaica Plain, Mass.
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Hardy Roses.
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Asparagus Plumosa Nana and Smilax.
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Conrad Appel, Darmstadt, Germany. Estab. 1789
High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
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The Chicago Lifter.
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Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
James Hart, 117 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
Moltz, 55-57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Chas. Smith, 55-57 West 26th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
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WHOLESALE FLORISTS.
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BUSINESS CHANGES

J. H. Billington, St. Louis, has sold out to Joseph Hensel.

H. A. Mosher has removed from Presque Isle to Hampden Corners, Me.

Amos F. Balfour has opened a flower store at 252 Second Street, Albany, N. Y.

The Gens Floral Company has opened at 143 So. Main street, Salt Lake City, Utah.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

ASSISTANT WANTED on a Commercial place; one who understands growing Bride and Bridesmaid roses. Good wages and steady place to right man. Dean & Co., Little Silver, N. J.

SITUATION WANTED – As working foreman, understands growing roses, carnations, and general stock. Sober and good references, married. Please state wages to B. ALLMOND, 106 Church Street, Winchester, Mass.

WANTED.—A first-class salesman of florist ware to handle our increasing business. Apply at A. H. Hews & Co., Inc., Cambridge, Mass.

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE

Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y
In writing to advertisers, mention HORTICULTURE

Thorburn's Bulbs

WE ARE NOW BOOKING ORDERS

— FOR —

LILIUM HARRISII

for the coming season, and florists are invited to send us a list of the sizes and quantity wanted, that we may quote them prices.

J. M. THORBURN & CO.
36 Cortlandt St., New York.
In writing to advertisers, mention HORTICULTURE.

GLADIOLI

THE BEST IN THE WORLD

Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.

WRITE FOR ILLUSTRATED CATALOGUE

ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

Schlegel & Fottler Co.

26 So. Market St., Boston, Mass.

Are Headquarters for

Seed Potatoes

Vegetable, Flower and Grass Seeds

Send for Catalogue
In writing to advertisers, mention HORTICULTURE

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts Leading Machines
32 So. MARKET ST., BOSTON
In writing advertisers, mention HORTICULTURE

Quality Seed Bulb Plant S

Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street *NEW YORK*

Ralph M. Ward & Co., will move from 17 Battery Place to 12 West Broadway, New York City, on May 1.

Asparagus Plumosus Nanus Seed

True Stock, Lath House Grown, Now Ready, 40c per 100, $2.00 per 1000

SMILAX SEED.— May and June, 20c oz., $1.00 lb.

SMILAX PLANTS. — Strong Clumps, $10.00 per 1000.

ASPARAGUS PLUMOSUS NANUS PLANTS.— From 3-inch Pots, 50c per 1000; from transplanted beds, ready for 4-inch Pots at $6.00 per 100, $50.00 per 1000; from transplanted beds, ready for 5-inch Pots, $10.00 per 100. (Express prepaid.)

E. R. MESERVE
Burnett, California
In writing to advertisers, mention HORTICULTURE

RAWSON'S
Arlington Tested
SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
In writing to advertisers, mention HORTICULTURE

BULBS

HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
17 Battery Pl. New York

Tuberoses, Lily of The Valley

Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
43-54 No. Market St. Boston, Mass.
In writing to advertisers, mention HORTICULTURE

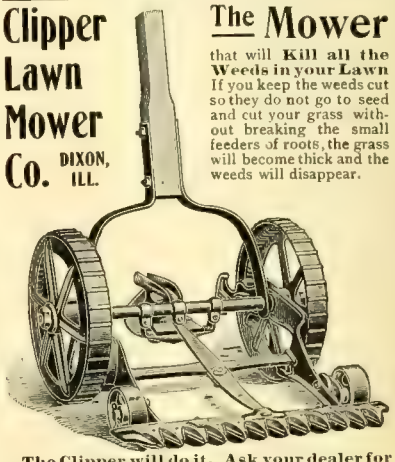
BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

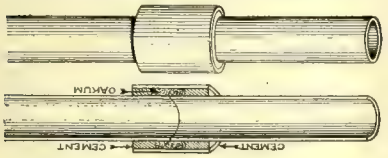
The Mower
that will **Kill all the Weeds in your Lawn**
If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



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pipe cutter. Six inches long is a good length, but they can be made longer. The boiler tubes themselves can be cut with the same cutter, and this makes it very easy for any one to work this kind of pipe.

The illustration printed herewith shows how the joint should be made. In using pipe of this kind in connection with cast-iron greenhouse fittings, with hubs for caulked joints, the right number of lines of pipe can be arranged under your benches, all to take their supply from the main feed pipe. The pipe lines can be arranged with butterfly valves, which can be furnished with hub ends to have the pipe caulked solidly into them. By using these valves, you can shut off one or more of your pipe lines in weather when you do not need the entire system.

Greenhouse heating systems put in with this kind of pipe and fittings have many advantages over the smaller size pipe. To begin with, the large volume of water held in the pipe is a safe-guard against the house becoming chilled with a sudden drop of the thermometer. Another convenience is that in each lineal foot of this pipe there is a square foot of radiation. These boiler tubes are very much lighter and more easily handled than 4-inch cast-iron pipe, and they come in longer lengths, so that there is not nearly the amount of caulking to be done with them as there is with the cast-iron pipe.

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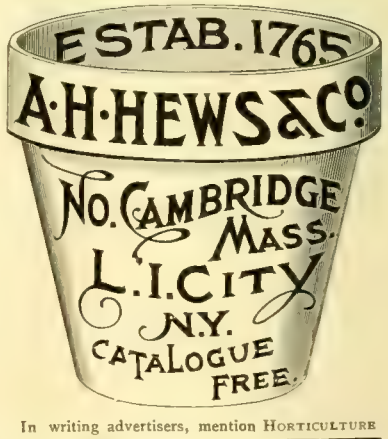
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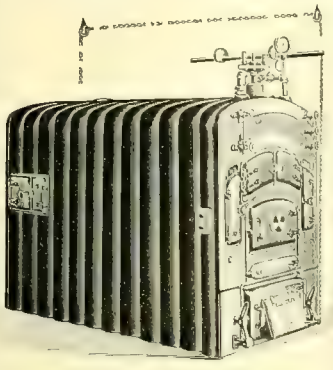
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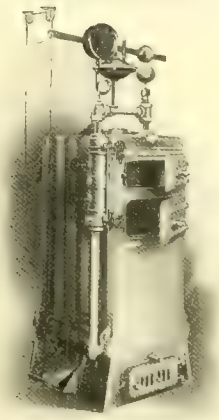
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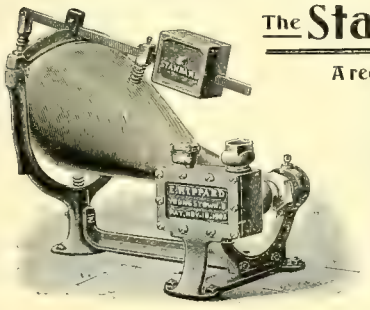
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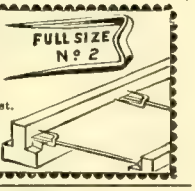


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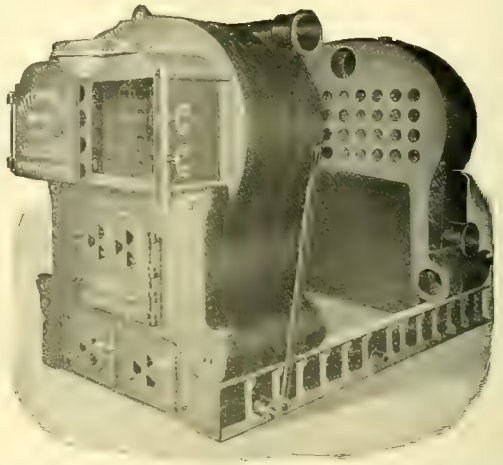
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Vol. I APRIL 29, 1905 No. 22



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1 1/2 to 2 "	1.50 "	13.00 "
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Cash with order. Packing Free. Prompt shipment 3000 plants and up, less ten per cent from above prices, cash. Light grades of all sizes 20 per cent off.

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CRASSULA HYBRIDA

makes a Standard Easter Plant. Its keeping qualities are above any other kind of flowering plants at present grown.

Sample Plants in Bloom, $1.50 each, $15 a doz.

Cuttings able to make large plants for next season, $3 per doz., $15 per 100

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Palms, Ferns

And Decorative Plants

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Strong stock plants from bench

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For strictly first-class stock...

Waban Rose Conservatories

NATICK, MASS.

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Decorative Art





A very common mistake among people who arrange flowers is that proper thought is not given to the selection of a vase or receptacle adapted to the flowers, i.e., tall vases for short-stemmed flowers, and shallow vases for long-stemmed ones are often used, with the result that the flowers are not nearly so effective, and the long-stemmed flowers put in shallow vases fade quickly which is very apt to cause complaint by patrons.

H. H. Battle.

British Horticulture

A Daffodil Display

There was a fine show of daffodils at the fortnightly meeting of the Royal Horticultural Society at Westminster, March 28. Among the chief exhibitors in this branch were Messrs. Barr and Sons, of King street, Covent Garden. Mr. Peter Barr, the veteran head of the firm, is known as the "Daffodil King," for his sterling services in popularizing this spring bloom. He has traveled in all parts of the world, and after a voyage around the globe he set out for a tour in the Holy Land. The business is now carried on by the three sons, who are continuing the work of cross-fertilization at their extensive nurseries at Ditton Hill, Surbiton. In the display under notice an award of merit was granted to Ariadne, a well-developed bloom, with white perianth, ivory-white cup, nicely frilled at margin. Awards of merit have already been secured at Birmingham, Truro, and Plymouth. The other exhibits included Peter Barr, the premier white trumpet daffodil; King Alfred, a yellow trumpet, with bold and shapely blooms; White Lady, with a broad white perianth, and a canary-tinted cup; Lord Roberts (yellow trumpet) with golden-yellow blooms of splendid size, standing out with prominence.

A Dean Hole Memorial

The late Dean Hole, President of the National Rose Society, made many friends during his lecturing tour in America, and returned with a high opinion of his fellow horticulturists in the States. He has placed on record in his book of travels the important part horticulture takes in creating a cordial feeling and *esprit de corps* among gardeners all over the world. At any rate the Dean had pleasant experiences of this comradeship which made him a welcome visitor to America. It will be interesting to American horticulturists to learn that a movement is on foot on this side to raise a fund for providing a memorial to this distinguished cleric and rosarian. The preliminaries have already been discussed, and a further meeting is to be held in April. This is as it should be. With the numerous admirers of Dean Hole, and appreciations of the valuable service he rendered to horticulture in general and rose-culture

in particular, there should be no difficulty in raising a substantial sum. It is to be hoped that American horticulturists will take some part in this estimable project. A suggestion has been made that the memorial shall take the form of the foundation of a scholarship on the advancement of some special branch of horticulture, and this appears to be an appropriate method of recognizing the memorable life of a noble man.

A Cucumber Pest

The many growers of cucumbers for market have in the past suffered heavy losses by the ravages of the spot disease (Cercospora Melonis). Some interest has been aroused in the announcement that Mr. H. D. Ladds, a Swanley nurseryman, has discovered a remedy. He expresses his readiness to disclose the secret for £1,000. Several of the growers have great faith in the discovery, and it has been decided to raise a fund with a view to making the purchase, and putting the remedy into practice. Mr. Ladd, at a recent meeting of growers, stated that the remedy had proved effective in his own houses and those of his brothers. He also expressed the opinion that a grower could dress 1,000 ft. row of glass in ten minutes at an expense of 6d. As to the remedy being innocuous, the following opinion was received from a salesman.: "With reference to Mr. H. D. Ladds' cucumbers of last season, I can only say that throughout that time they never showed any trace of disease, nor were they disfigured by any treatment, nor was their appearance in any way spoiled for market." A committee has been appointed to investigate the matter, and if the £1,000 is raised they will pay the money to Mr. Ladd, provided they are satisfied with his discovery.

Where are the Novelties

This is the period when one becomes bombarded with all kinds of catalogues from seedsmen and nurserymen. There are not many novelties which will attract much notice. The most is being made of Nicotiana Sanderæ. One London firm having large stores are selling packets at 9d. so that it has been brought within the reach of everyone, and is likely to be largely grown. A "white wall-flower" "White Queen" is included in some lists, but its title is a misnomer, the tint being pale yellow, fading to white. There is one point which often evokes criticism and that is the needless addition to the varieties of kinds which are synonymous to old sorts. This duplication and rechristening often causes confusion. The tendency of the trade appears to be to make a big show, but they would study the interest of their clients were they to reduce the number of varieties and avoid any bewilderingly synonymous kinds. Some of the lists over-awe their readers by the mass of unindexed information. The trade will find it advantageous to simplify their methods in this direction.

W. H. Adsett.

London, England, Mar. 29, 1905.

Some Greenhouse Pests

III

Mealy Bug

Very common pests in all greenhouses are the mealy bugs, of which there are several species, but as the habits of all are practically the same there is no need for the florist to distinguish them. The mealy bugs resemble the scale insects to a certain extent but are capable of moving around. When mature the females are covered with a white waxy substance — which gives them their name — secreted from the pores of the body. They also have a fringe of about seventeen spines. These females are wingless and do not move around any to speak of. The males, on the other hand, are provided with a pair of white wings, and also have two long appendages on the abdomen.

The female lays her eggs, 300–600, during her lifetime, starting when only two-thirds grown. They are deposited under the tip of the abdomen and in some cases covered with a flocculent waxy substance. When the mass of eggs is very large the female may be detached entirely from the leaf, except her head, upon which she seems to be standing. The eggs hatch in a few days and the young run actively about until they find a suitable place to settle. They then secret the waxy coating, and if females, remain there until they die, but if males they moult, appearing later as winged adults.

Treatment. Spray with a strong jet of water every few days. Alcohol and ether will dissolve the waxy covering. Oil and soap washes are good. Linseed oil can be used on hardy plants. All must be repeated often.

White Fly

The family Aleurodidæ contains many members, most of which are harmless, but the greenhouse Aleyrodes, or White Fly, is an exception to the rule. These are tiny, gnat-like insects with two pairs of wings covered with a white powder. The larvæ resemble scale insects being broad, flat, and oval, with a waxy coating.

The males and females are much alike, being provided with a beak with which they suck the sap of plants. The females lay about twenty-five eggs, the egg-laying period lasting ten or twelve days. The young mature in two months and lay the eggs for a second brood. Because of the lack of mortality and the frequency of reproduction they multiply rapidly.

They live on tomatoes, cucumbers, pelargoniums, salvias, fuchsias, and on other greenhouse plants, as well as on citrus trees. I have found them on Primula obconica.

Treatment. This consists of kerosene and resin washes, hitting the under sides of the leaves particularly, the HCN fumigation.

In conclusion, it is not within the scope of these articles to mention all insects injurious to florist crops but only a few of the very worst ones. Growers are imposed upon by a large number of special insects which do more or less damage, sometimes locally. Attention might be drawn to the Termites or white ants, often found in old greenhouses, the Hemispherical scale (Lecanium hemisphaerium) on citrus plants, and a host of others. If you find an insect that is doing considerable damage and you do not know what it is, send it to your experiment station and have them determine it for you and tell you the remedy. That is one of the objects of their existence.

R. J. Adams.

Architect and Landscape-Artist

It must be freely conceded that our American home-makers have learned a great deal during the last twenty years, and that their taste in house-building and landscape-gardening has been vastly improved. This change for the better was unquestionably brought about through the strenuous efforts and artistic sensibility of the popular periodicals, which waged a skillful and persistent war with the then prevalent absurdities of home-making, that offended every sense of beauty and order. The mushroom cottages, all of one pattern and one style, have given way to more ornate motives and more diversified models in cottage- and house-building and the sterile lawns of yore, dotted here and there with a few lilac-bushes and bunches of fleur-de-lis, have been converted into a semblance of something what they ought to be, but with a great expense of labor and money. Still, much has to be done yet to bring the house, as planned by the architect, and the surrounding grounds, as laid out by the landscape-artist, into a harmony that will insure the best effects and greatest convenience.

There are but few persons engaged in building a home that pay the least attention to the art of landscape-gardening around their homes at the proper time. They generally make some futile attempts when the building is done and when it is too late to obtain good effects.

The truth, is, that there is but one way to do this, and that is to start in the right way and at the proper time. It is useless to leave this kind of work to the discretion of a contractor or carpenter, or even the architect and have him draft your plans before you have obtained the advice of a capable landscape-artist, as to the site, where you are going to locate your house, and as to the effectual possibilities afforded by the plot that is to surround it. For the laying out of grounds and their artistic arrangement is not the province of an architect. But what is a home without lawns, flowers, shrubs, and trees, giving grace and pleasure without stint? How desirable are shrubs or ornamental trees with their fresh green foliage in the spring, with their refreshing shade in summer time.

Yet, many noble trees beautifying a lot or an estate could have been saved and made useful, which the vandal hand of thoughtless man rudely cut down. Many instances are on record, and not a few have come under the observation of the writer, where fine clusters of trees were dropped to the ground and a healthy growth of fifty and more years was destroyed and the logs rolled up in heaps to be burned, for no other purpose than to make room for the builders. After the harm was done and the grading of the grounds accomplished, young, feeble trees were set out and nursed with great care in place of the former beauties, which could have been preserved from destruction with a little forethought at the beginning of the building.

The architect has generally no thought of, nor an eye for landscape effects on the home grounds. He has but one point in view and this is, to have every line of his drawing stand out as attractive as possible, and he often uses impracticable as well as impossible effects for front and back grounds, which are liable to deceive the man for whom he is drawing the plans for a home. Thus is the architect enabled to make an elaborate plan with elevations and side views, which will never be fully carried out, but which is accepted by the builder under the high colored and misguiding lines of a prospective, that fills him in the end with dissatisfaction and disappointment. If the architect would but think for a moment of the possible landscape effects, he would at once notice his mistakes and see where he is at fault in his plans. He would not hesitate to take the landscape-artist into his confidence and say: "We must work together that we may secure the best and most desirable effects for our client, the builder." Then the landscape-artist would never be called upon to cover up defects and mistakes of an architect's plans which could have easily been avoided or corrected, had he but first taken counsel and viewed the location through the eyes of a landscape-gardener before he started drafting the model of the building.

What does the architect do first in projecting a building? Does he not properly commence with drawing the ground plan? Then he will work out the elevations and details. Why then not have a plan of the whole lot or plat drawn first as a ground plan? Why not find out and know what you are about to have? Locate the site for building purposes, lay out your lawns, drives, and walks, put in your clumps of shrubs and place your ornamental trees where they will show to their best advantage with the same aim and the same purpose with which the architect proceeds with his plans and decorations.

This, methinks, would be therefore the better way and the right way to set about building a home. First consider the natural advantages of the place, then let the professional artist point out to you the opportunities and possibilities which the location offers, let him utilize trees of vigorous growth found there and finally after having mapped out the whole of the landscape beforehand let the architect see with what effects he has to deal and how his plans may be improved.

Since brilliancy of color, truthful imitation of nature and novelty of decorative material form the favorite source of pleasure now-a-days, it is the landscape-artist who calls for his modicum of recognition and who is capable to satisfy a critical public with his work, for landscape affords the widest range of color and picturesque effect. Yet the best effects are not produced by chance efforts; but they have to be studied in ensemble and detail and it is the work of the artist, so to arrange, blend, and combine color and design, that the architectural lines of a building appear like the picture of a master in a worthy frame.

Let us hope, therefore, that architecture will make a compromise with landscape-gardening and the narrowness which seems to exist in some places, will give way to a broader mutual understanding and a disinterested coöperation.

H. L. Simmons.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The suggestion which one of our contributors makes — that the architect should consult the landscape-artist in selecting the situation for the buildings on an estate — has much to commend it. Unfortunately, the architect rarely takes this view of the subject.

Washington enjoys a milder winter and earlier spring than that which many of us are accustomed to, but occasionally has to submit to a very unseasonable visit from Old Boreas. Our illustration shows better than words can describe what happened on March 4, 1901, President McKinley's second inauguration day, and should help to influence popular support for the movement to change the date of the presidential inauguration from March 4 to April 30, when such a calamity, with its resultant deaths from exposure, would be out of the possibilities.

To the universal proneness to extol bygones may be attributed much of the prevalent idea that varieties of florists' flowers deteriorate under continued greenhouse propagation and culture. In the mind's eye the Bonsilene, Safrano, and Marèchal Neil roses of the olden time, the Grace Wilder, Anna Webb, and Hinze's White carnations, and even the Scotts and McGowans of later days loom up in quite different proportions from what they would had there been any modern American Beauties, Bridesmaids, Lawsons, Lady Bountiful, and Roosevelts, with which to compare them, or if it were possible to reproduce them other than in the tables of memory. Where deterioration can be proven, however, its cause will usually be found in unwise cultural methods.

The efforts being made by the School Garden Committee of the Massachusetts Horticultural Society to promote the establishment of children's gardens and encourage the improvement of school grounds throughout the State are in the right line and will undoubtedly meet with a quick and cordial response from teachers, parents, and best of all, from the children themselves. A passionate love for such things and such employment is inborn in every normally constituted child and, once introduced, the innovation may reasonably be expected to do its own promoting. We shall not be surprised if within a very short time every community in the State and many more outside the State will have wheeled into line on this question, and largely through the demand of the children themselves. As to the good influence of such training, on the home life and home surroundings and for the uplifting of the entire community a generation hence, it cannot be overestimated.

WHY WEEDS ARE WEEDS

Weed.—The general name of any plant that is useless or troublesome. — *Webster.*

Weed.—The name given to all those plants which grow wild in cultivated grounds and injure the crops; which they do by choking them or exhausting the soil. — *Chambers's Miscellany.*

Every plant which grows in a field other than that of which the seed has been sown by the husbandman is a weed. — *Penny Cyclopædia.*

And so we might go on citing authorities, and our own understanding that any plant which persists in growing where you want not it but something else, be it handsome or ugly, indigenous or exotic, is a weed — seems to be unanimously indorsed. Again, we have been always under the impression that a "weed" is usually well able to take care of itself and jostle its more favored neighbors out of their lives if not taken in hand. We have always envied our old acquaintance the purslane, which can neither be choked, trampled or electrocuted out of existence, and delights in being chopped up and greeting you with its numerous progeny a couple of days afterward. What would we not give to acquire such a constitution? As long as four hundred years ago Harleian wrote "Evyl weed ys sone y-growe," and it is nearly as long since George Chapman remarked that "An ill weed grows apace." Probably the fact thus quaintly recorded had been a matter of common understanding for many a hundred years before.

But now we find all our well-defined ideas on this subject completely overturned by no less a person than our world-renowned countryman Luther Burbank. Among the avalanché of slush written and circulated about the Wizard of Horticulture, we find the following quotation attributed to that gentleman:

"Weeds are weeds because they are jostled, crowded, cropped, trampled on, scorched by fierce heat, starved, or perhaps suffering with cold, wet feet, are tormented by insect pests, or lack of nourishing food or sunshine. There is not a weed alive which will not, sooner or later, respond liberally to good cultivation and persistent selection. A day will come when the earth will be transformed, when man shall offer his brother man not bullets nor bayonets, but richer grains, better fruits, fairer flowers." — *Luther Burbank.*

That's what happens to the best of men when the sensational paragrapher gets his clutches on him. We read elsewhere that Mr. Burbank has concluded to charge interviewers ten dollars an hour hereafter. A step in the right direction, but it doesn't go far enough. Ten dollars a minute would be about right for some of the more rapid ones.

After Adjournment

When one considers the labor and the risk involved in lily culture 25 cents a blossom, which is the price charged by the local florists, is startlingly cheap. * * *

Nothing is considered quite so appropriate an Easter offering as a symbol of gladness as are cut flowers, either in loose bouquets, tied corsage bouquets or arranged with artistic carelessness in boxes or baskets. — *Albany Journal.*

Cheaper than they were last Easter and very plentiful, is what the florists all say when you ask them what the outlook is for Easter flowers. The news is good news to thousands, for the Easter plant or bunch of flowers is richer in sentiment than any other floral tribute known to the horticulturist, except, perhaps, the bridal bouquet. It suggests not only the religious sentiments that cluster about the 'queen' festival of the ecclesiastical year, but it typifies the birth of spring in nature, and the opening of the spring season in the world of society and dress. — *New York Tribune.*

That's the right kind of talk. Worth more to the people in general and the florist in particular than whole volumes of scareheads about the scarcity and high prices of flowers, the substitution of live chicks for flowers and other "bug house" fads that generally find currency, and for which the florist is usually as much to blame as the reporter.

"No violets for Easter!"

This dictum emanates from a 5th avenue florist. It will bring sadness to many a feminine breast, for the violet is loved as roses are loved, and for street wear they are unexcelled.

It is not that violets will not be fashionable for Easter. Violets are always fashionable. But Easter comes so late this year, and the floral season is so advanced in consequence, that violets are passé. They have bloomed their bloom, blossomed themselves out, and must by the laws of nature give place to others.

"What shall we wear, then?" asks my lady of fashion.

"Oh, gardenias or orchids, particularly the lavender orchids," the florist will tell her. — *N. Y. Tribune.*

Ah! there's where the innate badness crops out. Did the author of this misinformation have a grudge against the violet and take this means for revenge?

"Quoth Hudibras, 'I smell a rat!
Ralpho, thou dost prevaricate.'"

Among the complaints regarding market values heard this season in America, the Lawson Carnation figures prominently, disappointment being freely expressed by growers because this flower did not reach the prices of former years. The cause of the decline, HORTICULTURE states, is undoubtedly due to the growers themselves more than to any other agency. Growers are too often influenced by current prices in planning for their next year's crop and plant heavily of that variety which is the most profitable for the time being, overlooking the certainty that other growers will think and do precisely the same thing, with the result that, as has been the case with Lawson, the quantity of one variety is away out of proportion to the necessities of the market, and the inevitable follows. This is a mistake not confined to the United States growers; similar instances occur on this side, to the loss and annoyance of those who are too ready to follow other people's lead. — *Market Growers' Gazette, London, Eng.*

Personal

Mr. Pettfield has been retained as gardener for Mr. Long who recently purchased the Col. Charles Pfaff estate in South Framingham.

Arthur Abraham, formerly gardener for Philip Moen of Shrewsbury, has succeeded Mr. Adams as gardener in the E. D. Jordan estate, Brookline.

John Berry, one of the best landscape-gardeners and florists in the West, has accepted a position in Colorado Springs as superintendent of Monument Park. Mr. Berry has been with the Park Floral Co., of Denver, for several years and the best wishes of the craft in Denver accompany him in his new vocation.

Arthur Griffin, gardener for Com. Elbridge T. Gerry had a display of plants and flowers for Easter, the like of which never was seen in Newport. Easter being so late this year gave Mr. Griffin an opportunity to grow lilies and other bulbous flowers under conditions so nearly akin to their natural requirements that the results were plants and flowers of unusual perfection and development. Mr. and Mrs. Gerry's custom of making many presents of plants and flowers to friends, besides sending quantities to hospitals in New York, necessitates the growing of a larger stock on this place than on any other private estate in this section.

SOME CINCINNATI WRINKLES

Walter J. Gray & Sons, Cincinnati, had a very large crop of short Beauties for Easter. This was brought about by keeping the plants at a very low temperature all winter, and then forcing them into bloom.

Some of the growers about Cincinnati used cloth stretched over supports which were attached to each end of the benches and long strips nailed to the tops of these forming a sort of a crate, the supports being high enough to extend over the tops of the blooming lilies. When the sun's rays were too hot they would stretch sheets of cloth over these, and in this manner were able to hold back more stock than there would have been otherwise.

WHAT THEY SAY OF US

You will please send us your valuable paper, the best we ever read; spicy and up to date relating to all subjects pertaining to Horticulutre. — S. O. N.

THE SPELL OF SPRING

Be it born of sweetness,
Be it born of light,
Of fragile incompleteness,
Child of morn or night —
Be it reft of all that's fair, its nameless charm to me
Lies in the promise that it holds of lovelier things to be.

I feel it in the fragrance
That comes before the flowers,
In the breeze's vagrance
Through the dreamful hours;
And oftentimes it wooes me, and sets my pulse a-thrill,
When first I catch with happy heart the bluebird's herald trill.

The little clouds whose whiteness
But makes the skies more blue —
Unto their tender brightness
It lends a softer hue.
Yes, earthward, skyward, seaward, no words can ever sing
The mystic, indefinable, the wondrous spell of Spring.

— *Samuel Minturn Peck, in the Boston Transcript.*

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

The Music Hall Market growers have a meeting for the organization of their ball team on Saturday, April 29, and a series of bowling matches is also a possibility next winter.

Plans are being completed for an excursion in June of the growers and their families to some shore resort, Nantasket seemingly having the preference. Every grower in either market owes it to himself and the prestige of the Boston florists to put his shoulder to the wheel and make this picnic an assured success. This summer all will have an opportunity to support several enterprises calculated to promote a condition of greater sociability between all the craft.

Reports from the Cape point to a record-breaking crop of Mayflowers this spring. To the New Englander no spring flower is so welcome. Recollections of the Mayflower parties of his youth are always vivid in his memory, and he can anticipate no greater pleasure than a day's outing in the woods in quest of these harbingers of spring. As I write, information comes to me concerning the loss by forest fire of many plants and flowers in the town of Barnstable. But the loss by forest fires is trifling when compared with the marauding Italians who root them up ruthlessly. Many towns have passed laws against this practice, but the territory to be covered makes control difficult.

T. F. MATTHEWS.

WHOLESOME CHESTNUTS

Grape vines need constant attention. Proper ventilation is the surest preventive of aërial roots which are now a recognized evil for the reason that when the fruit is ripening and little or no moisture in the house these roots get suddenly checked, with a corresponding and more serious check to the vines in consequence. Pinch or stop the fruiting wood at the second or at least the third joint from the bunch, stop all laterals at the first joint, select your bunch for each shoot and cut the rest off except Muscats; these set evener if left until fruit is set.

Disbud young shoots of peaches and nectarines and if in a fit stage tie in all you want for next year. When you water, do it thoroughly; there is nothing worse than an eternal sprinkling.

Make a calculation of how many bedding plants of each species and variety you need; this may save you needless trouble when bedding time comes.

Plant out hollyhocks, pansies, marguerite carnations and antirrhinums.

Keep your gardenias growing; the better the growth now, the longer will be the flower stems.

Give gooseberry and currant bushes a good dusting with helebore; there is nothing better for the bushes and nothing worse for the caterpillars.

Sow medium early peas, and as a precaution put in a row or two more sweet peas; we don't know what may happen.

A BANQUET HALL DECORATION

The beautiful picture which adorns our title page this week is reproduced from a photograph of a spring decoration done last year, by J. H. Small & Sons, for Clarence Mackey in the Postal Telegraph building in New York. The occasion was a reception given by Mr. Mackey to his agents from all over the world. The symbolism of the globes is obvious, and the flowers — apple blossoms on the walls, and sweet peas on the table — speak for themselves.

Is Floriculture More Advanced In This Country Than In Europe?

James T. Scott, at meeting of N. Y. Florists' Club.

The question is a somewhat knotty one. No matter how well disposed one may feel toward the land of his adoption there is that something voiced in the words of Sir Walter Scott

"Breathes there a man with soul so dead,
Who never to himself has said,
This is my own, my native land."

An opinion thus given is liable, therefore, to be biased in a degree, no matter how honestly we may endeavor to place the question. If we should confine ourselves solely to commercial floriculture, the answer would be a negative one. There is no country in the universe where flowers are grown (especially in the winter months) for the millions to such perfection as they are here, but the range of variety is in a great measure restricted. If we eliminate the rose, carnation, and violet, there would be little left, indeed, and looked at from the broadest standpoint these three items could scarcely be said to cover the field of floriculture. Financially, this country is able to support these luxuries better than they are supported in Europe. The working classes over there find it a hard enough struggle to make money enough to keep body and soul together, without any of these added luxuries. Even if they had the money it would be impossible to supply these grades of flowers at the same cost. The winters over there are cold and dull with scarcely any sunshine, and during the summer it is necessary to keep firing constantly. Under these conditions, it is impossible to produce the same grade of flowers at the same cost as we do here. The wealthy classes over there mostly rely on their own greenhouses for all their flower supplies, and the commercial florist, as we know him, is scarcely known on the other side at all. Covent Garden is largely a plant market, although during the early spring months lots of bulbous stock finds its way there from the Scilly and Channel Islands, and from the south of France. The modest flower girl is found on the London streets in spring and summer, but there is not enough money in the operation to entice the Greek, and the millionaire commission man can only be fattened in such a broad and wealthy country as America.

To every European, the cultivation of roses, carnations, and violets, as done in this country is quite a revelation, but here it ends, and floriculture in its broader sense seems to be largely sacrificed for this. Moreover, the tendency is to run to specialties, most times to carnations or roses alone, or vice versa, and the floricultural training of the young man in the business is, therefore, but superficial. No doubt he may be able to make just as good a living as if his knowledge were broader, but from a floricultural standpoint, his training has never been finished. There are, of course, many exceptions to this as there are in anything, but those who have surmounted the barrier have done so from energy and strength of character, in spite of the system, rather than because of it.

There are a few private places in this country where floriculture is just as far advanced as it is in Europe, instances at Gould's, Rockefeller's, Untermyer's, Borden's, Ogden Mills', Dinsmore's, D. Willis James', J. Crosby Brown's, F. L. and Oakes Ames estates, Percival Roberts', Wanamaker's, several estates in Lenox and Newport; but the majority of private places here are run too much on a semi-commercial basis, for what can be got out of them, and everything is figured down to dollars and cents. Merely a place where the floral essentials necessary for society events are produced more conveniently and cheaper perhaps, than they can be procured in the open market; or because a whim of fancy, or society dictates, demand that all up-to-date people must have these things to be in the height of fashion; just as the up-to-date spirits demand that the wealthy must own fast horses or an expensive automobile. They largely own these things from a spirit of caprice, to excel and outdo others less fortunate in the possession of the world's goods. A big bunch of flowers appeals to any nature however primitive, but how few of even those who own greenhouses will take up one small flower in their hand and admire it for the sake of the flower itself? In the language of the poet·

"A primrose by the river's brim,
A yellow primrose is to him
And nothing more."

How few appreciate the spirit of the poet Burns as he was about to turn under with the plough-shear a modest daisy, the first harbinger of spring:

"Wee, modest, crimson tipped flower
Thou's met me in an evil hour,
For I maun crush amang the stoure thy tender stem
To spare thee now is past my power, thou bonnie gem."

If we were to leave out the men who are directly interested in floriculture here for a livlihood, and the wealthy whose case has already been dealt with, what would be left? The poorer, everyday, working people have no love for rural beauty, and the flowers that clothe the roadways have not for them even a passing interest. How different from the old-world homes where every cottage has its garden; where the roses and the honeysuckle mingle with the morning-glories against the whitewashed walls of the humble dwellings; where the pathway that leads to the door has a border of flowers on every side; the edging may be of boxwood or oftener of the common saxifraga (or London Pride) or double daisies, or sometimes armerias (sea pink) Cerastium tomentosum (snow in summer). In the border behind the snowdrop appears before the snow has left the ground, followed in quick succession by crocus, daffodils, aubretias, grape hyacinths, primroses, iris, polyanthus, wallflowers, adonis, campanulas, veronicas, starworts, woodruff, pyrethrums, lupines, delphiniums, monkshood, ranunculus, anemones, phloxes, peonies, pansies, violets, trilliums, potentillas, and other things far too numerous to enumerate. In these small garden spots, they contrive to have things in bloom from early spring until late in the fall when the Christmas roses have to be protected from the keen biting winds with spruce branches. Flowers to these humble old-world cottagers are a source of everyday delight, few plants are bought or sold; their incomes deny this. But a spirit of good fellowship largely enhanced by mutual tastes enables them to barter backward and forward, and newer things thus find their way gradually into every garden. The children are reared in this atmosphere; they learn the names of the various flowers as they come and go; as other children become familiar with the names of the various household articles. As a boy, I could name every flower that grew in my father's garden, as well as every tree which grew in the district, and I was no exception to the others. When the day's work is over men turn to their gardens for recreation; often also, from necessity, for all grow their own vegetables, which otherwise they would have to go without, their income being insufficient to spend on needed staples. In every cottage window is to be found a wealth of bloom; it may be of ger-



Fountain in Botanic Garden, Washington, March 4, 1901

See Editorial Page

aniums, pelargoniums, or fuchsias only, but always enough to make the home look cheerful and bright. Every little country village has its annual flower show, and the keenness of competiton surpasses, in its own small way, a Madison Square exhibition. The beauty of it is, that all are competent judges and the minutest details are keenly scrutinized.

The love of flowers, and the love of the beautiful in nature, appeals not to those whose thoughts are sordid, whose one desire is to make money or to shine before the glaring footlights of a superficial society.

This is a comparatively new country, and men have been busy up till now developing it. Liberty-loving subjects of all nations have flocked to these United States, where aristocratic rule is unknown, and where one man is as good as another. Again the spirit of Burns prevails: "A man's a man for a' that" but our work is just beginning. Ours is a missionary calling. There is here a fresh field for labor. There is here the material to work upon. There is here the wherewithal to work with; and if the work remain unfinished it will be largely our fault.

Is floriculture in this country as far advanced as it is in Europe? No; not yet

DETERIORATION OF VON SION NARCISSUS

To the Editor of Horticulture

Dear Sir: — I would like to ask for a little information which will be appreciated.

I have some double Von Sion daffodils in the open ground. The first year they bloomed in good form and color, but the past two years they have done nothing. Last year blooms were poor and of a greenish cast; this year they seemed to be all "bull nosed," that is did not open and dried on the stalk. What is the matter with them, or are they no good after the first year. Any suggestions will be appreciated.

Yours truly, *

The deterioration of the double Von Sion narcissus by the malformation of the flowers and their becoming green in color is undoubtedly due to the soil in which they are growing, being too rich. This particular variety resents cultivation perhaps more than any other member of the narcissus family. Even in Holland, where its cultivation has attained its highest success, a new supply of collected bulbils must be obtained each year. For these there are three sources of supply; certain islands in the north of Holland; mountains of France and Spain; and the mountains of northern Italy, those from each section having distinctive characteristics of their own. Of the three, those from Italy are now considered the best. These bulbils may be grown in nearly all sections of Holland for one or two years without visible deterioration, and in one section, — the Sassenheim district — for four or five years. The Von Sion cannot be grown on the ordinary bulb fields where hyacinths and tulips have been planted and for which the ground has been highly manured, for longer than two years. But in Sassenheim, where the soil is a fine sand with a mixture of clay, certain growers continue with the same stock for as much as five years. They are careful, however, not to manure the land in which the bulbs are planted. For purposes of restoration the land is sown with grass seed and allowed to remain in pasture for two years, and thereafter recropped with double Von Sion narcissus.

Certain growers in this country have attempted to handle this variety in a commercial way with the result that the flowers have usually become green or distorted the second or third year. There is no doubt that they can be grown successfully here provided they are grown in perfectly natural condition, and without the soil being enriched. Other narcissi like Emperor, Empress, and some other strong-growing sorts, do not seem to be affected by high cultivation as does the Von Sion.

PETUNIA GRANDIFLORA FIMBRIATA INTUS AUREA

From Die Gartenwelt

This beautiful petunia, which originated in two places, — the Sachssche establishment of David Sachs, Quedlling, and another firm in Erfurt, Germany, the latter having the precedence, — is the most graceful and prettiest of all single petunias, its name being its only objection.

The wonderful combination of colors produced by the mostly very soft pink, soft lilac coloring, etc., together with its various golden blendings of the radiating throat, attracts the eye of every visitor who has a sense for beauty.

Its beauty is further enhanced by the elegant habit of the plant and the very pronounced waving of the flowers.

Silver Wedding Basket



Our illustration shows a silver basket filled with twenty-five Bride roses. The basket was presented at a twenty-fifth wedding anniversary. As the picture shows, the roses were well-opened and with an abundance of Adiantum cuneatum and a draping of white satin ribbon form a beautiful and artistic object. The work was done at Norton's, Boston.

ROSES AT EDGELY

H. Simpson of the Edgely greenhouses thinks he has something good in the way of new roses. This something is a sport of the Queen of Edgely, very light pink with deeper center, almost the same shade as Baroness Rothschild, with a rich satiny sheen and of exquisite fragrance. He is guarding it with great care and hopes to have enough by next season to exhibit so that all can see it. He has also a sport of Liberty, but we did not see this. Richmond has made a favorable impression here and a good-sized order for stock has been placed with the originators, E. G. Hill Co. We noticed very fine Brides, Ivorys, Golden Gates, and Bridesmaids, and were told that these varieties had, on the whole, paid better per square foot than Beauty or Queen of Edgely, fine and profitable as these had proved.

P. Welch thinks Edgely is well located for a commercial rose establishment, being on a main line and in quick touch with New York and Philadelphia and easy for Boston, Baltimore, Washington, and Pittsburg. He says Queen of Edgely is still the popular rose in the Boston market and outsells Beauty every time.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

President Vaughan has appointed Mr. E. B. George of Painesville, as vice-president for northern Ohio.

Prize Essays

At the recent meeting of the executive board in Washington, D. C., it was voted to offer three cash prizes of $25, $15, and $10, to be awarded for the first, second and third best essays respectively, on the subject of "The Ideal Employer." The essays not to exceed fifteen hundred words each. The prizes are donated by treasurer H. B. Beatty.

Those wishing to compete are requested to send their completed manuscript to the secretary not later than July 15. The manuscripts should be unsigned, but the full address of the writer should in all cases accompany same. The awards will be made by a competent committee and the names withheld until after a decision has been made.

WM. J. STEWART, *Secretary.*

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of the Newport Horticultural Society was held last Wednesday evening, President Sullivan in the chair. The committee on advertising in the schedules reported excellent progress.

A communication was read from President Butterfield of the State College of Agriculture and Mechanic Arts, asking the society to send a representative to the next conference of the State Committee on Rural Progress. The request complied with and Robert Patterson was elected to represent this society. Mr. Patterson is widely known throughout the State as an enthusiastic worker in the cause of rural progress and development, and it seemed strangely coincident that just as he was being recognized as such that an opportunity should be presented to give more scope to his zeal in this direction.

Another feature of this meeting was an instructive address on chemical compounds for spraying for the destruction and prevention of insects and other pests by Mr. Dickey of the Danforth Chemical Co., Leominster, Mass. Mr. Dickey urged frequent and thorough spraying both against blight and insects with non-arsenic compounds. After his address several members asked questions, and his answers showed Mr. Dickey to be well posted on all matters connected with spraying compounds.

RHODE ISLAND HORTICULTURAL SOCIETY

The regular meeting of the Rhode Island Horticultural Society was held on April 19, President M. M. Burdick presiding.

William Appleton was elected to succeed the late Farquhar Macrae in office. The society voted to be represented on the committee of rural betterment, and elected C. W. Smith as its representative. A committee of five — Thomas Hope, Henry W. Angell, J. S. Kettlety, Charles W. Bayer, and Fred P. Hunt — was elected to secure a suitable lot for the erection of a society building.

A brief memorial service for the late Farquhar Macrae, who was an active member, was held. A suitable resolution to his memory was framed.

Adin A. Hixon of Worceter, Mass., secretary of the Worcester County Horticultural society addressed the meeting. His subject was "Fruit: Its Culture, Care of and Marketing."

KENTUCKY SOCIETY OF FLORISTS

The Kentucky Society of Florists will hold its regular monthly meeting on Tuesday night, May 2, at Coenen & Co.'s place, and a large attendance is solicited, as it will be Mr. Coenen's last meeting with us, he leaving for California in the near future.

IMPRESSIONS OF CANADIAN HORTICULTURE

It is a matter of sincere regret to us that the limits of our space will not permit the publication in full of a most excellent paper, under the above title, read before the Montreal Gardeners' and Florists' Club, on April 3, by Mr. Edgar Elvin. The following extracts from the paper seem to us timely and interesting not exclusively to Canada but to all sections of our great American country.

"Horticulture in Briton is not yet in extremis; on the contrary, it was never so full of vigorous life as to-day. It is true there has been a certain metamorphosis in the trade; the great old firms perhaps do not do the same business as of yore, but there has sprung up a host of small growers and florists to meet an increasing demand. The love of flowers was never so strong as now, as witness the magnificent shows so well patronized in London and the great provincial cities, and also the increased attention to gardening subjects by the weekly newspapers and monthly magazines. * * *

"My first impression of Canada was that of spaciousness. Things are on the grand scale. One has the feeling of breathing a larger, ampler air. This factor of mere size alone, it seems to me, has reacted on the Canadian mind; his mental faculties seem to take a wider sweep than the usual island-bound Britisher. This applies not only to his outlook on life, but is vigorously applied in his business; he thinks in continents, and is at home in the wholesale trades. Your born or naturalized Canadian gives the impression of great physical vigor; a sharp grip of life, a breezy optimism seems to possess him; a certain attitude of self-confidence betrays itself in his speech, walk, and general aptitudes. How much he owes to a bracing climate, to a freedom of opportunity, or a growing consciousness of prosperity and consequent independence, are questions which might well set the ball rolling in debate. * * *

"While I admire your Canadians in many respects I do not think the average man in our business is as well informed in all around horticulture as those at home. He is a good specialist but his general knowledge has been largely limited by his opportunities. Then again I might briefly point out what seems to me certain defects in his constitution. In the first place, he is inclined to impatience with all who do not conform to his own type. 'Wanted, a Hustler' is a common advertisement. Now, your hustler may be and often is a mere bustler, or a bungler, and sometimes a mixture of both. Your hustler is set over against the man with quiet, but clear intelligence, and often with a single superficial view the latter is out-classed, and suffers temporary eclipse. Now, I put it to you that there is no business where an exact, well-balanced judgment is as often required, where a little carelessness and inattention to detail count for so much as in ours; where a seemingly trivial error will leave most ruinous marks on the year's account. * * *

"After the men we come to the stores. One is immediately struck with the really magnificent carnations and roses; for length of stems, richness of coloring, largeness of blooms, and general aristocratic appearance they quite out-class those usually seen in florists' shops in the old country. * * *

"The Christmas dressing of the stores and windows was in good taste and the trade done a revelation. But, speaking generally, the conditions of the windows leave much to be desired for, with one or two conspicuous exceptions, they present a slovenly and often bedraggled appearance. In this respect you are behind the florist in the old country who always looks well to his windows. * * *

"As to floral and decorative work I can hardly speak but from what little I have seen and the catalogues I have reviewed, there appears to be greater originality of design here than in the old country, though in this respect there has been a great awakening during recent years across the water. The tendency in both cases is towards a more open and natural arrangement; and simplicity in designs. * * *

"I should like to put in a plea for more variety. The position of the rose and carnation we may regard as unassailable; we hope so. But perfection itself may become icily faultless, splendidly nil, when it is reproduced to satiety, and I feel sure the people would respond to something that would combine and associate well with the Queen of Flowers. Further, in this connection I share with you a growing faith in the boundless possibilities of progress in this great Dominion. In its train there is sure to come that development of the arts and luxury of life which is the basis of our business. There will probably grow up a civilization which will eclipse all the courtly and artistic splendors of the old world. Horticulture will open up a new field by supplying a large private-garden trade as in the old country. A few years hence, we who are on the ground will be regarded as the pioneers of our profession. It is our duty to keep our eyes on that future and anticipate its needs. * * *

"We may not be able at present to lead the way in hybridization, but it is possible to make experiments with the innumerable good things which are being raised or introduced by others across the seas. While your climate will always limit the area of your choice, especially in hardy subjects — seeing that you have an extreme winter and a tropical summer — still there is here as well as indoor a wide field for investigation. * * *

"I am convinced that what is needed now is capable leaders — men who will gather up and focus all the aspirations of their less able brethren; men of wealth and influence to devote both to the advancement of horticulture in the way that Sir Trevor Lawrence and Baron Schroder are doing in the old country; statesmen of the front rank to do for some flower what Mr. Chamberlain has done to popularize the orchid; growers like the Rochfords, May, Paul, and Veitch; hybridizers like Heal, Kelway, Suttons, and Dicksons of Ireland. Given such leaders, the people with their deep love for novelty in flowers will readily respond."

THE STRINGFELLOW METHOD

This question was recently debated at the Massachusetts Agricultural College by members of the senior class in horticulture, "Resolved, that the Stringfellow method of pruning trees is of no practical value."

That such practical questions are discussed will probably be a revelation to a large number of people, as most everybody appears to consider the work done at our agricultural colleges as confined to textbooks and a little outdoor work.

As all orchard men are aware, the Stringfellow method of pruning consists in cutting the trunks of trees just from the nursery back to eighteen inches, and the roots to one inch, leaving only a stub.

In the debate two men were assigned to each side, all of whom had carefully prepared their line of argument beforehand. The arguments advanced by the affirmative were: —

Chances for nurserymen to palm off old stock for new.

Carelessness in digging.

Transportation is no cheaper, as it takes two or three times as many pruned trees to get a stand.

Land should be so well prepared that holes can be dug without the use of a crowbar.

Roots will not grow down as claimed by advocates of Stringfellow method, but will follow the system natural to the tree, and no amount of pruning will alter this course.

Must have tap root to anchor tree.

Dry season will kill the trees for there are no roots to obtain sufficient moisture.

Downing advocates keeping a ball of earth.

Experiments show that with trees having roots 8 inches long, 91 per cent grow; of those with 3 inch roots, 97 per cent grow; while if the roots are only 1 inch long, only 36 per cent will survive.

Most experiment stations claim unreliability and do not recommend practising the method.

Only weak buds are left after cutting back the top, which develop slowly and unevenly, making a lop-sided tree.

Inspectors take care of insects and disease. Buyers need not take infested stock.

The method is an experiment, and practical men have no time for that.

In college orchard one year old trees are far ahead of trees planted two or three years ago and severely pruned before being set out, according to this method.

The arguments for the negative consisted of the following: —

Easy handling in the field both in shipping and planting.

Maintained that they will not dry out if set six inches deep.

Cutting causes fibrous roots to grow.

Cheaper transportation.

Less packing necessary.

Removes insects and disease. Inspectors cannot see the roots of every plant.

Two- or three-year-old trees can be handled and planted as cheaply as one-year-olds.

Nurserymen can dig them cheaper.

A deep, uniform, penetrating root system is obtained. Trees live longer and bear more regularly.

Trees are low-headed, thus protecting from sun-scald. Easier to spray, thin fruit, prune, and harvest crop. No weeds will grow under a thick head, hence less cultivation is needed.

A bigger orchard can be started with limited means, than with old-style trees.

Many illustrations and experiences were cited by both sides. A close general vote at the finish declared the affirmative the winner of the debate.

While several criticisms were pointed out, still the debate was successful, and serves to illustrate the notice that colleges are taking of the prominent questions of the day, and the efforts they make to interest and instruct their students in them.

R. L. Adams.

PELARGONIUM ZONALE "RUBIN."

Mollers Garten Zeitung.

"I have been at work," so writes K. Neubronner, sen. Neu Ulm, "to raise a zonal pelargonium, which will flower real early and abundantly, having not too large, but nicely marked leaves, grow compact and bushy but by no means dwarfly, with strong, upright flowerstalks and with few seed pods, and which is as hardy as possible against bad weather. This goal has been reached in "Reformator," which fact suggested the choice of the name."

After hybridizing with "Reformator" for five years to get a better color in the flower, K. Neubronner & Co., the firm of which above writer is a member, offers to the trade a double red pelargonium of Reformator parentage, which is shown in photograph on same page, namely, "Rubin." Other varieties are promised for 1906 or later. As the cut shows it has a mass of flowers above the foliage of twice the bulk of the foliage itself. The claims of endurance in bad weather or exposed position in this country have yet to be confirmed, of course, before it can be recommended for bedding purposes here.

G. Bleicken.

METROPOLITAN PARK ASSESSMENT

The Massachusetts Metropolitan Park district consists of thirty-eight cities and towns, named below. The cost of all improvements made in the district by the metropolitan park commission is assessed upon all these cities and towns. The law requires Boston to pay one-half of this cost, no matter where the work is done. The other half is divided between the other municipalities. The following table shows what each city and town pays on each expenditure of one hundred thousand dollars:

Boston	$50,000	Andover	$ 99
Cambridge	5,409	Hingham	327
Chelsea	1,456	Hull	418
Everett	1,210	Hyde Park	701
Lynn	2,859	Milton	3,043
Malden	2,481	Nahant	728
Medford	2,443	Needham	231
Melrose	823	Revere	3,043
Newton	5,154	Saugus	234
Quincy	1,313	Stoneham	346
Somerville	3,472	Swampscott	420
Waltham	1,334	Wakefield	388
Woburn	728	Watertown	920
Arlington	804	Wellesley	565
Belmont	431	Weston	483
Braintree	341	Westwood	98
Brookline	6,029	Weymouth	491
Canton	417	Winchester	1,019
Dedham	770	Winthrop	804

The prize contest between the school children of Waltham, in the collection of brown-tail moth nests, brought in to the superintendent, 24,742 nests. The winner of first prize was credited with 5,784 nests. One girl was among the winners, with 1,390 nests.

FLORAL DECORATIONS IN THE STREETS OF PARIS

From Le Jardin

Translated by G. Bleicken.

"The use of flowers and live plants seems to be no longer restricted to the decoration of apartments, and begins to invade the street for the purpose of greater pleasure to the eye.

Temporary use has already been made of them on the occasion of various observances but it is now proposed in Paris to add again to the architectural beauty of the capital by dressing it with flowers and plants in permanent fashion.

Mr. Desplas, president of the municipal council has received a delegation of merchants of the Avenue de l'Opera, which has submitted to him a project for decorating this grand Parisian thoroughfare by placing between the electric light posts, and in the same pattern as those, immense jardinieres filled with growing plants. This is a very happy idea, and we can only congratulate the merchants on their initiative and enterprise in proposing such a bold innovation.

After the blossoming balconies, blossoming streets! With our public gardens, our squares, and the fortifications transformed into a belt of parks, the Garden City would indeed be realized."

Paris is apparently approaching that happy condition suggested in the Louisville *Courier-Journal's* jingle: —

"No cheap or vulgar object mars
The household, it is said,
They even have no family jars,
But jardinieres instead!"

OBITUARY

Platt C. Reynolds, a horticultural and agricultural writer of wide repute, died at his home in Rochester, N. Y., on April 13, aged 79 years. For twenty years Mr. Reynolds was agricultural editor of the *American Rural Home*, also for a time of Green's *Fruit Grower*. He was secretary of the Western New York Horticultural Society until failing health caused his resignation.

LIST OF PATENTS

Issued April 4, 1905.

786,371. Pruning Implement. Ralph J. Meyer, Grand Junction, Colo., assignor of one-half to Gustav Van Hoorebeke, Grand Junction, Colo.

786,483. Fruit-Pitting Machine. Jerome Caldwell, Los Angeles, Cal.

786,487. Hop-Picking Basket. Franklin W. Craver, Santa Rosa, Cal.

786,547. Shipping-Package for Potted Plants. Harry G. Chamberlin, Chicago, Ill.

786,631. Garden Plow. Evan C. Davis, Jackson, O.

786,673. Fruit-Picking Machine. Amos C. Pitman, Brooklyn, Canada.

786,766. Pruning Implement. John G. Hunt, Lenox, Mo.

Issued April 11, 1905

786,855. Fruit-Gathering Device. Elwood Tatum, Westbranch, Ia.

787,164. Fruit Picker. Frank Fisher, Jr., Oconto, Wis.

787,214. Lawn-Trimmer. Johan H. E. Peters, Wauwatosa, Wis.

Issued April 18, 1905

787,477. Fruit-Picker. Julius G. Smith, Liberty, N. Y.

787,619. Lawn-Mower. Isaac German, Baltimore, Md.

787,710. Tool for Budding. Herbert C. White, Valdosta, Ga.

787,773. Shipping Crate or Drum. Jules Laine and George Castillon, New Orleans La.

OUTDOOR ART

SPRAYING FOR SAN JOSE SCALE

Read before the Tarrytown Horticultural Society March 28, 1905 by L. A. Martin

The question of what will kill the Scale, without injuring the trees, has been asked many times; formulæ in numbers have been given; many of them differing only in the right quantity of each ingredient to be used to make the solution, but any one when prepared rightly and according to directions, would do the business to some more or less satisfaction.

We have had the opportunity (not the pleasure) to fight the San Jose Scale for the past few years, and to learn which would be the best remedy for destroying the pest, and have tried quite a few different kinds, but to-day I find that the Lime Sulphur Salt wash, as per formulæ given by the New York Agricultural Experiment Station, although quite troublesome to prepare rightly, is the most effective because of its ability of destroying the Scale with no injury whatever to the trees, providing that the spraying is done while the trees are in a dormant state, say from December to the time that the buds begin to swell in spring.

This spring we have done quite a lot of spraying for this scale, as our fruit trees, such as apples, pears, plums, peaches, also currant bushes, were found covered with it, some of them were so badly affected that we decided to cut them down; at the same time we trimmed the others of surplus wood, and where impossible to reach every branch with the spray, they were headed a little, and all this wood was burned at once.

As stated above, we have used mostly this season Lime Sulphur Salt treatment, but for experimental purpose, we also tried the Lime Sulphur Caustic Soda (of which I shall speak later), "Hammond" Horicum and "Lion Brand" Lime Sulphur Salt preparations, which, if they are as described to be, will save the trouble of cooking, as it has to be done for the first mentioned wash, and it may be just the thing to use on small places having only a few trees infected; as they only require to be diluted with so many parts of water. What effectiveness those preparations have on the scale remain to be seen.

The formulæ for making the Lime Sulphur Salt wash, as given by different writers, varies more or less, but the following will be found perfectly reliable:

Unslacked Lime	30 pounds
Ground Sulphur	20 "
Salt	15 "
Water	60 gallons

There are many ways of preparing this wash, but in our own practice we have done as follows: Slake the lime in a large iron kettle to form a creamy solution; make the sulphur in a thin paste with hot water, then add sulphur and salt with about 20 gallons of water, boil for about 45 minutes, then add the balance of water needed to make the 60 gallons (warm water if possible) and bring the whole to the boiling point. To prevent clogging of the spray pump, strain through a very fine sieve or cloth, and use the materials while warm.

No special pump is required to apply this wash. We have used with satisfaction Myers' Spray Outfit, with a Vermorel Nozzle attached. On spraying the trees select if possible fine, still days; if no wind is blowing more perfect the work will be done, and less loss in materials. Go over the trees carefully and from every side, so that every



part is completely covered with the wash. A wagon or cart drawn by a horse, the driver to take care of the pump and another man handling the hose, is all that is necessary. For tall trees we have used advantageously 25 feet of 1-2 inch rubber hose attached to a long pole; in this way we were able to reach every part of tall apple trees. This wash is ruinous to clothes, so do not wear your best Sunday suit in doing the work.

I have also used this season Lime Sulphur Caustic Soda, which does away with boiling, and consequently saves time and labor, but will it be as efficient as the above wash? time will tell; it is highly recommended by many writers and experienced men. The ingredients needed are:

Lime, unslacked	30 pounds
Sulphur, ground	15 "
Caustic Soda	6 "
Water	50 gallons

And prepared as follows: Slake the lime in a barrel with 6 gallons of water; as soon as slaking commences add the sulphur, which has been previously mixed in hot water to a paste; as soon as the boiling of the lime has partially ceased, add the Caustic Soda, which will make it boil again; pouring water as needed to slake the lime well, and keep stirring until chemical action has completely ceased; adding the required amount of water to make the 50 gallons of mixture, it is then ready to spray on the trees, after having been strained to save a lot of trouble when spraying by clogging the pump.

The effect of those washes upon the trees seems to retard the growth in spring for a week or ten days, but when starting they grow more rapidly and in a short time will be very vigorous, with abundant foliage and better color.

The immediate effect on the scale is the death of all with which the mixture comes in contact, within a few days after the spraying has been done, showing that when the trees have been thoroughly sprayed and well covered with the mixture, no live insects are to be found; and as the wash or residue will remain for a long time on the trees, it prevents the newly hatched young from finding a place to settle.

In closing, I may mention that all the washes we have used have been recommended in the bulletins of the New York Agricultural Experiment Station, which directions were carefully followed, and would say that any one interested in the spraying of fruit trees, either for scales or other injurious insects, should send for the bulletins of the station, which are forwarded free to any one interested.

Governor Douglas of Massachusetts takes opportunity in his Arbor Day proclamation to call attention to the moth pests and urges that there is no more fitting way to observe the day than by devoting it to efforts to rid the trees of these destructive things. Another suggestion that will attract especial attention is that of lining the roads with trees which will provide fruit or nut products as well as shade. He estimates that the commonwealth contains more than a million acres of almost worthless land that would be very valuable if covered with forest trees.

AND CRAFT

ROCKERIES

By Emil Glenapp, Hamburg, in "Wiener Illustrirte Garten-Zeitung"

Translated by G. Bleicken.

After a short introduction on the evolution of landscape gardening from the artificiality of the Hanging Gardens of old Babylon to the modern naturalistic style, the writer gives a few very plain and tasteful ideas on rockeries and water scenery. We give these in his own form as nearly as translation will permit:

"The builder of natural scenery must not fall into the error of trying to transfer pictures which nature has set up upon a plain of a mile in length, to a small place. Every piece of ground, even the very smallest, can contain at least one characteristic object of nature, but its size must not be out of proportion to the rest of the garden." Bearing this in mind we continue now with his remarks on rockeries especially:

"Also rocks must be admitted into the garden, as difficult as is the test of grouping them, only as if arranged by nature, and they obtain the highest effect when they most nearly approach nature. A main requirement in groupings of rocks is to see that they are erected out of one species of stone and not composed of diverse rock species. If we neglect this rule of nature, our rock scenery will show too evidently that nature has been cheated, because she is not capable of producing diverse rock species upon local-limited grounds.

"Further, rocks should maintain the position in which they are naturally found. Pieces from large rock formations which are characterized by their horizontally placed layers, should only be used where rock groups are placed on slopes, on the foot of a hill, or in a ravine, where they have the appearance of having been pulled loose from their original places and now thrown on these places by some great force. In such cases the landscape need not take into consideration their former position; on the contrary, the informal position suggested will prove, or let it seem possible, that here in the past a battle of nature has occurred.

"Rocks, if they accompany the slopes of brooks, or if they shall form a waterfall, must be placed upon a firm foundation to avoid an underwashing by the water, and thereby cause a shift of their position. Of course such foundation must remain invisible. Waterfalls, which tumble down with wild noise over rocks, should not be planted with weeping willows, or similar trees of pendulous habits, because their character of rest and melancholy does not agree with those places where nature seems in the wildest battle. Black firs, pines, and evergreens of all forms find picturesque and correct application as a framing of such a wild natural picture.

"Fountains, brooks in their course, or similar water scenery in connection with rocks can be prepared by the art of the landscape gardener through corresponding planting, into the loveliest places of the garden. Such pieces accept only low-growing flowering shrubs

of rich colors. Deciduous trees of picturesque designs may be used in such places, to be 'planted under' with perennials, violets, forget-me-nots, and meadow plants. Also roses may be planted on such places."

We wish to close with accentuating the last sentence about rose planting. Very often a suitable place for the rose-garden near enough to a place of rest and comparative coolness in summer-time, is difficult to select in many gardens. Of course, the necessary light of the sun must not be obstructed. During the greater part of the day the roses should have an undivided light.

OUTDOOR GROUPING OF PLANTS

From "Landscape Gardening," by J. Weidenmann

Grouping we believe to be the most delicate, if not the most difficult subject, to be treated in such a manner as to lead to a tasteful and proper conception of it. No rule can be established, for the combination of various kinds of trees in one group should never be imitated on the same ground. No one can ever be a landscape architect who does not possess tasteful originality, and an eye for the beautiful harmony of lines and colors. Before one plants his trees, it would be well for him to visit such places as are acknowledged schools of taste, of which Central Park is the chief. There the various groupings may be studied, and the reasons why they occupy just such a place be reflected upon. The general forms and outlines of the groups produce different effects, and tints and colors require particular consideration. In the several seasons each group experienced a change, either slight or more striking, and that the changes constantly produced were in harmony with the various surrounding groups. Observation would teach that there was a particular place for each group, and the plants for it are selected with the groups they compose, and with the groups that surround it. Groups vary in size, according to the size of the place and the effect required, remembering that lawns are all-important, and they should not be sacrificed. If there are too many trees, they will destroy the beauty of a landscape, that is, its lightness and freedom.

Groups of shrubs may properly be placed in curves of roads and walks, so as to give a natural effect. The nearest tree to the road should be from ten to twenty feet from it, so that when grown it will hang down over the margin of the lawn. Shrubbery is planted not nearer than three feet. On the principal lawn, these groups are composed of choice trees and shrubs. Groups consist of evergreens, mingled with deciduous shrubs and trees, or of deciduous trees and shrubs, or of shrubs alone, according to the effect desired to be produced. Elevated portions of the land often afford fine sites for a group, which seems to greatly raise the place, and consequently give a more undulating appearance to the land. On both sides of the entrance groups are made, both to hide the entrance from within the grounds, and form a pleasing background, as well as to give prominence to the entrance from the outside. Groups are also placed to form backgrounds for trees, flower beds, statues, and vases. Groups are planted to separate the ornamental grounds from the orchard and vegetable garden and outbuildings. Grouping in extensive grounds, is carried to the extent of making thickets or mass grouping. Dells or low sections ought not to be filled up with planting, but the beautiful sweep of the green turf should be left free to receive the lights and shadows. Grouping immediately around the house should not be done, neither should the house be left entirely destitute of trees. While lawns are large, single specimens of trees should be planted here and there. Where several trees or groups are planted their relation to the lawn and road should differ in order to avoid all appearance of regularity. A similiar group or tree should not be placed on each side of the house, nor should there be any similar attempt upon the grounds. Constant variation should be sought and at the same time the creation of absurdities avoided. Groups are not to be planted indiscriminately, but a good reason ought to be had for the disposition of every group and every tree, either for its beautifying effect, or for its usefuness and beauty combined, and there should not be a stronger reason against the planting than there is for it; for a group, attractive in itself, may be placed in such a position as to greatly mar the aspect of the whole principal ground, which would be a gross error. The size of groups depend upon the extent of the grounds. This is applied to the grounds as a whole; taken individually, their size or extent should be in proportion to the curve, point, or hillock, on which they are planted, or according to the background, cover, or shelter required. The size of groups is regulated according to their combination. The needful subject for consideration is their form. Worcester says grouping is "the art of combining objects with a view to picturesque effect." This has especial reference to the ground plan or disposition in planting. In planting small groups do not allow any great variations in their horizontal outlines, but larger ones afford all the opportunity necessary for bays and recesses, with gradual or bold projections. We also have to give much attention to the vertical or top outline, which depends upon the shape and height of trees and shrubs. The rule concerning these is that the tallest is placed in the center, but not strictly in the center, then comes the tree of medium size, and the smallest are placed on the margin. If groups are placed so that only one place can be seen, the largest trees or shrubs are planted in the rear. The exterior shrubs should not be all of the same height, but be so placed that their top line will present a proper amount of variation. Trees or shrubs are often grouped by arranging them according to their foliage, making a group of small-leaved trees, a group of those with cut leaves, another with pinnated foliage; but in every case color and size must be considered as equally important. Plant at unequal distances and not in line. This principle should be carried out in all grouping, whether in small or in mass planting. Landscape architecture is no less difficult than painting, colors are living and changing. It is necessary to be familiar with them or the landscape may be dull and lifeless. The art is to produce the beautiful and picturesque by unity, variety, and harmony.

ROADS AND WALKS

By E. P. Adams in the American Association of Park Superintendents' Bulletin

Although roads and paths are needed in every park, they should not be more conspicuous than the need for them required. Their curves, both horizontal and vertical, should be graceful that they may be pleasing from whatever point viewed. And they should be well constructed in order to last a long time without repairs and that they may not become unsightly by washing away, nor expensive to maintain. They need not be very costly to be permanently good roads. The thorough drainage of the road foundation is the most essential factor in road construction. This, with a surface compacted sufficiently to carry the heaviest load without being cut up by it and smooth enough to carry all the surface drainage quickly to the side drains, will ensure a good road. In general, all loam, however deep, and all clay within three feet of the surface grade, should be removed and gravel or broken stone substituted to subgrade. All filling should be compacted by rolling before the surface is added. Any hard rock will do for the foundation, but for the broken-stone surfacing only the best trap rock should be used. If the foundation is unyielding, four inches of macadam is sufficient depth of surfacing. Soft subsoil requires greater depth of rock and Telford construction. The drainage of foundation is improved by placing the largest stone at the bottom of the foundation. It is important to make sure of the proper and complete disposal of both foundation and surface drainage. Immediately after a soaking rain is the best time for surface rolling. Catch basins should be frequent on steep grades, and gutters should be paved on all steeper grades than five per cent. For the macadam surface I prefer to use two grades of broken stone thoroughly wet and sprinkled with sand before rolling, then a half inch of stone dust from the crusher thoroughly rolled when wet. If a soaking rain does not come conveniently, a sprinkling cart must be used before rolling. Only a steam roller can properly compact the macadam and give to the surface of the road the hardness and smoothness essential to its proper drainage.

Paths to be permanent should be constructed like the roadway, but with less depth of macadam and smaller stone. A heavy hand roller used frequently after soaking rains will keep the surface in a smooth condition. But in the natural woodlands of the parks, I prefer paths without definite outlines, from which the roots and stone only have been removed and on which the pine needles and leaves have been allowed to fall in Nature's way.

ENGLISH STARLINGS IN AUSTRALIA

From Report of United States Consul-General Bray, Melbourne, Victoria

The English starlings, first introduced here from Great Britain for the destruction of insects, and protected by law, have completely changed their habits, and have now become a serious pest to orchardists. The few pairs of these birds brought into the state a few years ago have increased to myriads, and have become so destructive to the fruit industry that the regulations framed for their protection by law have been repealed, and energetic steps are advocated for their eradication. The fruit destroyed by them includes peaches, pears, cherries, figs, apricots, plums, grapes, straw berries, and apples. Both vine growing and fruit growing are seriously threatened if the pest is not suppressed.

From many districts reports come that fruit growing will have to be given up unless some radical steps are taken. As many as ten cases of apples have been destroyed by a flock of these birds in less than half an hour. Valuable insect-eating birds, such as kingfishers, diamond birds, tree swallows, and tree creepers, are being driven out of their nesting places in tree hollows by swarms of starlings, and before long the birds so useful to the farmer and orchardist will be driven out of the state. The starling is said to raise five broods in a year and multiply with amazing rapidity. In one district three years ago not one was to be seen, now there are thousands.

The Royal Agricultural Society of Victoria and all other similar associations are uniting in a request to the government to take active steps to eradicate the pest.

EASTER MARKET REPORTS

BOSTON Testimony as to the Easter trade in this market lacks uniformity in many minor details but may with safety be designated as satisfactory to all concerned — that is, excepting those who "want the earth." A noticeable feature about the business was the absence of any inflation worth mentioning in the prices of either flowers or plants. Undoubtedly the explanation of this phenomenon is that there was no scarcity of anything and a plethora of some things so that the incentive of demand exceeding supply was wanting. Only on one morning at the market was any stand made for increased values on carnations, but the movement died at an early age and prices were down to normal before the close of the session.

Flowers, in general, were received in good shape and "salted" material was not in evidence to any great extent. Colored flowers in all classes sold best. All such things as white carnations, stocks, Bride roses, lily of the valley, and bulbous flowers generally, were left over in greater or less quantities. American Beauty roses of high grade sold freely at from $25 to $33 per hundred, medium grades bringing from $12 to $20. Very few fancy Bridesmaids brought over $10, and the figures ran all the way down to $1.50 per hundred on the refuse. In carnations, Lawson took the lead, followed by Enchantress and Fair Maid as the next best sellers. Violets had a splendid clean-up at good prices. Lilies were, of course, sold in enormous numbers but there seemed an inexhaustible supply from which to draw and many were necessarily held over for disposal the next week — not wholly a disaster judging from the fact that lilies are bringing about as much in the market the week after Easter as they did the week before. The shipping business was good — confined, however, to the New England territory and a few Canadian points. Plants were, as elsewhere, the main attraction for Easter. The usual assortment was available, consisting of lilies, azaleas, acacias, genistas, spiræas, Crimson Ramblers, etc., and the quantity disposed of was probably in excess of anything in past years. From a wholesale standpoint this end of the business was an unqualified success, for every plant worth having was sold ahead. On azaleas, even, it was next to impossible to buy one from growers hands three or four days before Easter. The retail stores appear to have stocked up over-freely in some instances and the number of plants necessarily held over was larger than at any time heretofore. No regrets are heard, however, so there is manifestly no apprehension as to their ultimate disposal.

Reports from various New England centers outside of Boston indicate a similar experience generally. In some instances a reduced trade is reported, and in all cases mention is made of the fact that there was an abundance of all seasonable plants and flowers, and no advance beyond ordinary prices on anything.

BUFFALO The market for Easter week, discouraging at start because of inclement weather, ended satisfactorily to all. Saturday was an ideal day in all respects; an immense business was done and everything was well cleared up save a few lots of bulbous stock. At the wholesale houses not a carnation was to be had at five P. M. Retail as well as wholesale people report a thorough clear-out on all Easter stock.

CHICAGO Lilies of course were the strong feature of the Easter cut-flower market; starting with prices quoted in advance holding firm until Friday, when a slight advance prevailed. There was no complaint as to lack of quality, but the proportion of long-stem stock to the total offerings was below expectations. Violets were exceptionaly good for so late a season. A sharp active trade in which all of the trade were good buyers, boosted values to $1 for the best eastern violets, and several consignments reached $1.25 per 100. American Beauties experienced a heavy demand and the retailers found no fault with the prices asked for select grades, the 15 to 24 inch sizes being in greatest demand. The holiday requirements for these sizes it seems impossible to fill. The demand for white carnations was better, comparatively, than for colored, save for the fancy grades of Enchantress, Estelle, and Mrs. M. A. Patten, which were in small quota. Local retailers were strong when choice Prosperity could be had. The demand for orchids resulted in cattleyas bringing this spring's highest price. Receipts of bulbous stock were heavy excepting of fancy tulips, on which values averaged the best for the season. Lily of the valley commanded an increased call. Liberty roses were again in light supply. Mme. Abel Chatenay, American Beauty, Bride, and Bridesmaid roses received a heavy call. Smilax reached the highest price of the season. All other greens were in ample supply.

The out-of-town-demand was never better and local trade was ahead of last year.

Many more and better-grown plants were seen than ever before, lily plants leading; large pans with up to three dozen flowers to the pan were in great demand. A word about Easter lily pans. These are best planted a few days before the big event. Where large specimens with twenty-four to fifty flowers are wanted this is a good opportunity to use some of the green plants which failed to open in time along with others showing several developed flowers; every bud will eventually open giving a long succession of bloom which proves so satisfactory to retail customers. Azaleas held, as heretofore, a leading place. They were fine and it was particularly pleasing to see a good proportion of the pyramid and branched specimens which are so beautiful. As to varieties, Van der Cruysen was in the lead, fourteen to twenty-four inch crowns being the most popular. Hydrangeas were better on the average than when Easter comes earlier and the dwarf small-flowered, with many branches, proved the best seller. Heathers were only in limited supply, Erica Cavendishii and cupressina prevailing. Other plants offered in greater or less numbers were boronias, roses, rhododendrons, deutzias, genistas, lilacs, Crimson Ramblers, and hyacinths. Plant arrangements were very popular. Pteris tremula, and other ferns were used largely in the make-up of plant baskets.

Retailers locally prepared for a tremendous demand and their anticipations were fully realized. Of course some lines were in over supply such as extra large baskets filled with azaleas, etc. However, Easter of 1905 goes on record as the best ever.

CINCINNATI From all reports, business this Easter has been very good and, with many, better than expected. All kinds of stock sold readily and good prices were realized with the exception of some bulbous stock such as tulips, poeticus, etc. Dutch hyacinths were a little scarce owing to the previous hot weather and sold readily at a fair figure.

Roses and carnations arrived in very large quantities,the former taking the lead and were easily disposed of. American Beauties were more in evidence this Easter than usual — especially short-stemmed stock. Violets were scarce with the exception of shipped ones and for these sorts there was very little demand.

LOUISVILLE The Easter business this year was probably a little better than in previous years, there being actually nothing of much value left Sunday morning. Lilies sold unusually well, and it took some hustling to get enough together to fill orders. Carnations also cleaned out well. The demand for roses was a little disappointing, probably caused by the excellent qualities of carnations. Lily of the valley, home-grown, was unusually good, while one lot of shipped stock was nearly spoiled upon arrival. Lilacs, mignonette, daisies, etc., all sold moderately well, also plants of nearly every description.

NEWPORT The market at Easter was all that could be desired. The dealers anticipated increased trade over former years and this increase materialized to the extent of nearly every dealer clearing out all stock at prices in advance of last year.

All lines of both plants and flowers were in better condition than usual, — lilies in particular. Hyacinths, daffiodils, and tulips were sold in large quantities. Callas were not so much in evidence as usual. Lily of the valley was scarce but of good quality and profitable to the retailer. Carnations were picked up rapidly, so were roses at prices twenty per cent in advance of last year for the best grades.

In plants, Crimson Ramblers were the favorites. These were offered in much larger specimens than formerly, making them of great value for church decoration along with palms, and they were purchased in such quantities for this purpose that the dealers had but little difficulty in disposing of the medium-sized plants later. There were more violet plants in pots sold than usual, and the reason, apart from their real worth which is always apparent, was the attractive way in which they were displayed in the florists' windows. Windows received more attention this year than at any Easter within recall and those most concerned are satisfied that they are well repaid.

The stock bought out of town arrived in better condition than ever before. Shippers paid more attention to packing, and it is needless to say that there has been plenty room for improvement in this particular. It has been often a matter of wonder how growers who devote so much time and pains growing plants should pay so little heed to the oft-repeated complaint regarding poor packing.

Taken all in all, this was the most satisfactory Easter from the florists' standpoint in many a year. An especially pleasant feature was the appearance of a much greater variety in large quantities than formerly. This should make each recurring Easter festival more interesting and welcome to the growers of miscellaneous stock. As for novelties there were not many, the most conspicuous being Baby Rambler (if it can be called a novelty any longer). It is a good seller and its usefulness is by no means ended with Easter.

NEW YORK Easter conditions for 1905 were fairly conducive to good business. Its lateness did not unfavorably affect trade as had been feared, the cool temperatures having held society people in town and, by retarding out-door verdure, made the florists' product more enticing. As in previous years the preponderance of public favor went to plants. Buyers, as a rule, were not disposed to be critical as

o varietes, individuals generally having a well-defined idea of the amount they wished to spend and being solicitous only to secure the most showy result up to that limit. Thus novelties, as such, were not particularly in demand and the plant growers were fortunate in that they had taken few chances in this direction.

The retailers found the public disposed to buy early in the week and a very heavy business had already been done by the time the full rush was on. This insured more care in packing, messenger delivery instead of crowded jolting wagons and, with the remarkably high quality of the product, provided the public with the most satisfactory line of Easter gifts thus far. To this the lilies were the only exception and that only in part. The quantity of lilies was far in excess of that of any previous year and many of them were of exceptionally high quality. If the growers of the balance got even the value of crates and express charges out of it they got more than the stuff was worth. Many lilies, good as to flowers, were also too short in stature to bring full values. Both theory and evidence favored the conclusion that the growers, rather than the bulbs, were responsible for most of the lily misfortunes. This view might, however, be modified in some degree if it were possible to computé the number of bulbs discarded in their early stages by particular growers.

After lilies, the plants most heavily represented were azaleas — red predominating — Crimson Ramblers, bulb flowers, hydrangeas, genistas, spiræas, ericas, acacias, and daisies. The enormous specimens of former years were conspicuously missing. Of Crimson Ramblers very few eccentric distortions were seen, most of the plants being trained in neat bush form and the flowers were noticeably more brilliant than ever before. The new blue hydrangeas, with their spindly habit, were no match for the good old Otaksa in the public eye. Ericas — beautiful little specimens of the ventricosa type — were very much more in evidence than ever before in this country, the showing of persoluta and other small-flowered kinds being correspondingly reduced.

In lesser quantities were rhododendrons, Dorothy Perkins roses, obconica primroses, lilacs, Campbell violets, boronias, and gardenias. The boronias were perfect beauties and did not require the misleading appellation of "new heather" which was attached to them in one prominent window. English primroses were unaccountably rare. A few handsome cattleyas and oncidiums were seen, also double-flowered pink hawthorn and Crassula hybrida.

The growers being equally accessible to all retailers willing to pay the price, much similarity was noted in the stock offered by the stores in all sections and of all classes. Dealers in the more flush sections went heavily into jardinieres and hampers of mixed plants. Odd designs, including some of the successes of last year, were generally absent, zinc-lined hampers, rectangular jardinieres, and round, bulging, cheese-shaped baskets of plain material being almost exclusively used. For pot plants simple baskets of braid, rush, or woven willow, natural or sometimes gilded or colored, were invariably seen, and for groups of lilies, white enamelled wooden buckets ruled. The quantity of ribbon and lace used was much less than for many years. In some localities the use of crepe paper and Porto Rico mats was practically abandoned. The only notable novelty in the way of a plant box was an oblong jardiniere of which a large number were sold by Alex McConnell. The material is in imitation of old marble, artistically adorned with a procession of bas-relief figures.

The multiplying of retail stores in the best residential sections has divided up the business so that no one or several establishments holds the distinctive prestige possible some years back. The alignment is constantly changing and no one can calculate exactly the amount of material he will need. To this fact is due, in part, the fact that, while some dealers were well sold out by Easter noon, others were still heavily over-stocked, and that local report on the Easter trade varied from "splendid" to "very unsatisfactory." If it were possible to compile full returns and make exact comparisons, however, it would be found, beyond a peradventure, that the Easter plant trade for 1905 was by far the largest in New York's history.

Once more it was up-hill struggle for the cut flower. Dealers did nothing towards securing a supply in advance and gave the plant business their undivided attention. Hence flowers received previous to Saturday benefited nothing from the proximity of Easter. Saturday's shipments were a staggerer for the wholesale dealers, being augmented by the combination of sunny skies and the hoarding propensities of growers. The retail trade was quick to take advantage of the situation and much material was sold for considerably less than it would have brought if offered two days earlier. Saturday's stock was, as a rule, superlatively good and worthy of a better appreciation. On the other hand, Friday's shipments comprised the worst lot of stuff ever sent to New York. Roses mould-spotted as with measles, violets decayed and dropping to pieces, and carnations closing at once on exposure to light and air were a sad commentary on the rank stupidity still prevalent in many quarters, and their scornful reception, even by the street Greeks, was the final step in their degradation. Roses, even when good, were not favored as Easter flowers, and the better part of the meager flower demand was monopolized by lilies, violets, lily of the valley, and bulbous stock. Sunday used up an enormous quantity of violets for street wear, the rather limited proportion of really good ones bringing stiff figures all through. The unseasonably cool weather was all that made violets at all possible for so late an Easter. An immense quantity of worthless violets was left unsold.

An excellent clean-up at the early morning flower market on Saturday was looked upon as a good omen, but it petered out quickly. 28th street enjoyed its usual wagon blockade, but the old-fashioned shirt-sleeve hustle did not materialize. All wholesalers kept open the entire night.

PHILADELPHIA A good Easter. There were plenty of flowers to go around and prices kept steady at the advance noted in last week's report. Roses were in good shape and steady, — perhaps a little too many whites as the Kaiserin crop was evidently carefully timed for Easter. Carnations were even livelier than roses and shades like Joost sold extra well. White was the only color that went a little draggy. Big demand for violets and supply short; $1.50 could be got for the best without any trouble — something unprecedented for this market at Easter. Cut lilies were too plentiful, but tulips, freesias, and daffodils were sold about down to the limit of supply. Many orders for orchids had to be turned down. A few cattleyas and cypripediums were all that were around. Sweet peas were in fine shape and sold well, mignonette draggy. Gardenias came in more plentiful than expected, but most of them were disposed of at fairly remunerative prices.

The plant trade was as usual, enormous, and overshadowed everything else. Taken as a whole, the quality was finer than ever before, the variety at least equal, and the quantity enormous. Where it all went to is a mystery, but by Saturday night there was but little left anywhere.

Lilies topped the list, with azaleas and ramblers close seconds. Genistas were in good supply and unusually well done. Hydrangeas were fine and good sellers, but there were perhaps a few too many of these. Spiræas and deutzias came next and after them the cheaper subjects such as hyacinths, daisies, tulips, daffodils, etc. The Bottle Brush and the bougainvillea were in evidence — some very fine specimens of the latter, eight and ten feet high — making a mangificent show.

The stores in the center of the city had the usual overflow annexes, but it seemed that there were far more of the outside tradesmen indulging in a plant flier. Druggists, grocers, haberdashers, milliners, jewellers, butchers, bakers, undertakers, shoemakers, hatters, clothiers, general stores, department stores, and goodness knows how many others, were having a try at it, all over the city, but especially in the outlying districts — Kensington, Frankford, Germantown, West Philadelphia and so forth. No doubt they reached many a buyer who would otherwise have gone without, as it was simply impossible for the regular stores to handle all the trade. The sidewalk merchants especially those on Market street, Ridge and Germantown avenue, City Hall plaza, etc., were doing a rushing business up to early on Sunday morning.

As for new features, it cannot be said there was anything especially novel either in plants or in made up baskets. A few Baby Ramblers pretty well done were to be seen, but not enough to make much of an impression. We look for a blaze of these next year and predict they will be the greatest seller of the day.

Gleason & Wolf is the title of a new firm which blossomed out at 1419 Chestnut street on Easter week. Mr. Gleason states that they may keep open permanently if conditions pan out.

Pennock Bros. were strong as ever for variety and excellence of their display. Ericas, crassulas, English primroses, and many other less common subjects were much in evidence with them.

Julius Kohler & Son, Frankford, had a rather unique window display — a lawn scene with two miniature lakes in the foreground on which were ducks, swans, and water fowls; in the background were shrubs near the mansion and coming down the driveway a floral automobile drawn by a bevy of white doves. Flowers were blooming on the lawn and at the sides. This attracted great crowds for days and was a mighty good advertisement.

PROVIDENCE Easter business this year was about equal to last year's, without many violets to help out, which made quite a difference in receipts. Blooming plants of all kinds sold best, although there was some call for palms and ferns. Good ferns were quite scarce and have been since Christmas, both small and large sizes. There was an abundance of good flowers of all kinds except violets. There was also some poor stock which should not have been sent out at any price. The large department and grocery stores sold lilies in pots for less than the regular retail florists could buy good stock for, and they sold a lot of them, which

however, they did not agree to deliver in good condition. It looked the first part of the week as though we were going to suffer from this competition, but we all sold our regular share at a little less than former years. The delivery of plants at such times is quite an item. Quite a number of the florists advertised several days "Grand display of Easter flowers, etc.," which I think helped some. Light colored azaleas sold best this season, which was a change from former years.

PITTSBURG Most retail and wholesale houses report extraordinarily good business. Saturday opened up with bright sunshine and brought a vast amount of people to the down-town districts. It seemed in the morning, the way plants came in, that there would be an overstocked market, but towards the afternoon the shops and stands were denuded and those who waited until evening before buying were disappointed. Everything brought very good prices. Although their new quarters were not quite finished the Pittsburg Florists' Exchange used it as salesroom and handled an abundance of select flowers, as did also Pittsburg Cut Flower Co. and J. B. Murdoch, and good prices were obtained generally for all class of blooms. Carnations were not so plentiful and good fancy Enchantress and Lawson brought the highest figures. The market stands were glutted with bulbous stuff, but all were disposed of by evening.

CHICAGO TRADE TIPS

The best things seen here for Easter: E. Wienhoeber Co. had the fancy single tulip Rose Luisante. Its habit of growth is perfect and as a late forcer it is unequaled. C. Samuelson used Azalea Mollis extensively in basket work. The delicate shades and graceful flowers are enchantingly effective. Boxes of yellow hyacinths were exclusive at Fleischman's. At Muir's grand Boulevard store a miniature poultry farm composed the window display and live chicks chirped a welcome.

The coupon tag used by Klunder and at Friedman's is a fine example of good system. In size it is slightly larger than the regular shipping tag. Every one is numbered, showing a corresponding number on the stub which, when signed by recipient, is returned to the office where it is checked off. This obviates the carrying of a receipt book and requires address to be written only one time.

Easter plant trimmings were in light shades, white predominating.

Rhododendron Catawbiense was the favorite here.

Primula obconica and ericas planted in twig baskets were a big success.

Bulletin 93 on Mixtures and Appliances for Spraying, by T. C. Johnson, issued by the West Virginia University Agricultural Experiment Station, is an exceedingly useful and timely document. Illustrations are given of the various approved spraying machinery, nozzles, etc., and showing them in operation. Full directions for the preparation of mixtures in large or small quantities. Spraying is now one of the essentials of successful culture.

Lowering a Big Palm



The illustration shows a very difficult undertaking successfully performed under the direction of head gardener Alois P. Frey in the palm house at Lincoln Park, Chicago. The Phœnix reclinata, which was lowered, is about forty years old, measures thirty-five feet in height, and forty feet spread, and weighs about ten tons.

Its large growth required more headroom, and as these houses are the highest in the country, it was necessary to lower this plant. Excavations all around the main stem, about 10 feet from the center, were made to the depth of 15 feet, the plant being steadied by block and tackle, fastened around the trunk, and braced from the iron supports of the palm house. After the required excavations had been made, the soil was worked from underneath the plant, which, by its own weight, settled down, inch by inch, until the proper level was gained, about eight feet below its original position. In its present position, it will be planted no deeper than originally, as the soil will be leveled off around the trunk.

KILLARNEY IS HARDY

It will be pleasant news to many to learn that the Killarney rose has proved perfectly hardy without any protection whatever, through the past winter in the vicinity of Boston. In a quite promiscuous variety of roses of different classes, few have gone through as well and none better.

It is said that Disparene, the great Bowker insecticide is the only preparation that will destroy both broods of the cooling moth. The handbook of insect pests and plant diseases issued, free, by the Bowker Insecticide Company, Boston, tells all about Disparene and many other good things.

Something New for Decorating

Now that the season for Wild Smilax is over and no more stock can be supplied, I wish to call your attention to the Branches of the Huckleberry Tree as a most elegant Decorative Green.

It is largely used by the Florists of the Pacific Coast, Washington, and Oregon, in Decorations. The Branches are FLAT, very thickly furnished with exceedingly lustrous, green leaves and it seems to adapt itself to almost any position in decoration that the Wild Smilax can be used in.

As the Introducer of Southern Wild Smilax, I think you can give me credit for knowing a good thing when I see it, and I am convinced that in Huckleberry Branches, you will have a very beautiful substitute for the Wild Smilax, of great value to you through the months of May and June.

I am anxious to get the Verdict of the Floral Trade on this introduction and offer to send you a Case on Suspicion, price $2.50 per Case if it suits you, nothing if it does not. Will you try a case on these terms?

Yours very truly

CALDWELL THE WOODSMAN

The Man who gave you the Wild Smilax

Evergreen, Ala.

.....NEW CROP.....

Hardy Ferns

NOW READY

FANCIES, $1.25 per 1000
DAGGERS, $1.00 per 1000

In writing to advertisers, kindly mention HORTICULTURE.

PORYZEES BURNED OUT

The retail flower store of Charles P. Poryzees, located at 1418 Chestnut street, Philadelphia, was totally destroyed by fire at about 2 A.M. Easter Sunday. Origin of fire unknown; but is supposed to have come from the adjoining cigar store. About one-fifth of the loss is covered by insurance. A large number of orders for delivery Easter Sunday were tagged and laid aside and these were totally destroyed, together with the order book. The resulting tangle and disappointment to customers is almost as bad as the monetary loss. The disaster could not have happened at a worse time and the sympathy of the trade for Mr. Poryzees is quite outspoken. Dozens of our prominent houses called him up on the telephone and offered assistance in merchandise, men or money, if either or all of these would be of any service. Mr. Poryzees is deeply grateful for this cordial feeling among his brother tradesmen and although he needs no assistance, he appreciates the good will none the less. The business is not interrupted as fortunately Mr. Poryzees has another store at 29 South 15th street.

CATALOGUES RECEIVED

I. N. Kramer & Son, Cedar Rapids, Ia. Illustrated catalogue of seeds and plants for 1905.

V. Lemoine et Fils, Nancy, France. Catalogue and price-list for spring and summer of 1905. Includes many promising novelties.

Chico Nurseries, Chico, Cal. Catalogue of fruit and ornamental trees, second edition. A comprehensive list; abundant illustrations.

Shatemuc Nurseries, Barrytown, N. Y. Select plants for the garden border. A tasteful illustrated pamphlet, listing both tender and hardy garden favorites.

Julius Roehrs Co., Rutherford, N. J. List of exotics, including orchids in immense variety, palms, bay trees and other specialties of this widely known establishment.

Frederic J. Rea, Norwood, Mass. Catalogue of hardy herbaceous perennials. Besides the usual list of popular favorites of the old-fashioned garden, many meritorious novelties are included.

Reading Nurseries, Reading, Mass. Fifty-first annual price-list of hardy trees, shrubs, vines, flowers, and fruits. A selection made with an intimate knowledge of the material, and one hard to beat. A useful book on the desk.

Furman Round Sectional Boilers. A description of the most recent type of the excellent heaters made by the Herendeen Mfg. Co., Geneva, N. Y. Illustrated and contains much valuable information. A copy may be had for the asking.

10,000 KAISERIN

ROOTED CUTTINGS

$15.00 Per 1000

Immediate Delivery

SAMUEL S. PENNOCK
1612 Ludlow St., PHILADELPHIA

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Hardy Perennials for Florists

To Supply Cut Flowers during Spring and Summer

Burbank's Shasta Daisies Divisions of selected stock; extra strong, $4.00 per 100; $30.00 per 1000.
2d size, $2.50 per 100; $15.00 per 1000.

Rudbeckia (Golden Glow). Strong divisions, $3.00 per 100; $20.00 per 1000.

Achillea The Pearl. Clumps, $2.50 per 100; $15.00 per 1000.

Delphinium Hybridum fl. pl. Colors, all shades from sky blue to dark purple, strong divisions, $6.00 per 100.

Delphinium Hybrid, fl. pl. Frau Emma Metzger, the best of all Delphiniums for cutting; color, sky blue tinted silvery rose, a good keeper. Plants from cold frames, from last years sowing. $1.50 per doz.; $10.00 per 100.

Delphinium Formosum, $5.00 per 100.

Delphinium Chinensis, $5.00 per 100.

Pyrethrum Roseum Hybrid Grandiflorum Seed from Kelway's Prize Collection. One-year-old clumps, $1.50 per doz.; $7.00 per 100.

Cash or satisfactory reference with order.

WM. A. FINGER, Hicksville, L. I., N. Y.

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GARDENIAS

Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

A Splendid Easter or Spring Pot Plant

YOUNG ROSES

Own Root AMERICAN BEAUTY. First crop now ready from 2½-inch pots. $6 per 100; $50 per 1000.

GRAFTED BRIDES and BRIDESMAIDS on Irish Stocks. $12 per 100.

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Sharon Hill, Del. Co., Pa.

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Rhododendrons

10,000 Rhododendrons Maximum, selected clumps, 3 to 6 feet; **2000 Kalmia Latifolia,** 2 to 3 feet clumps, very fine, especially suited for fancy lawns and estates where immediate and beautiful effects are wanted. Head gardeners and florists who are in need of this class of stock will do well to write us. Special prices for the next 30 days; shipments can be made from now until May 30. Address

THE RIVERSIDE NURSERY CO.

Confluence, Pennsylvania

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Hybrid Moonvines

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R. C. HAYDEN, Sec'y and Treas. WILLIAM J. MUTH, Mgr.

Our Stock consists of the finest Seasonable CUT FLOWERS

1516-1518 SANSOM ST., PHILADELPHIA Store open 7.30 a.m., to 3.00 p.m.

For After Easter Weddings

VALLEY, BRIDES, CUT LILIES

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SHIPPED TO ALL POINTS

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Hardy Cut **Dagger and Fancy FERNS**

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EVERYTHING IN

CUT FLOWERS

OUR MOTTO { GOOD { STOCK TREATMENT PACKING

EDWARD REID

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO April 25	ST. LOUIS April 17	PHILA. April 25	BOSTON April 26
ROSES				
Am. Beauty, Fan. & Sp	42 00 to 50 00	25 00 to 40 00	35.00 to 40 00	20 00 to 25.00
" Extra	25 00 to 35.00	15.00 to 20.00	25 00 to 30 00	12.00 to 15 00
" No. 1	20 00 to 25 00	12.50 to 15 00	15.00 to 20 00	6 00 to 80 00
" Lower grades	4 00 to 15 00	8.00 to 10.00	6.00 to 12 50	4.00 to 5.00
Bride & Maid—Fan. & Sp	10 00 to 12 00	..... to 10 00	10.00 to 12 00	6.00 to 8 00
" " Extra	8 00 to 10.00	..... to	8 00 to 10.00	3.00 to 5.00
" " No. 1	6.00 to 8 00	6 00 to	6 00 to 8 00	2.00 to 3 00
" " Lower gr	3 00 to 5 00	. to	4.00 to 6 00	1.00 to 2.00
Liberty, Fancy & Special	12 00 to 18 00	..... to 10.00	20 00 to 25 00	12.00 to 15.00
" extra	10.00 to 12 00	..... to	15 00 to 20 00	8.00 to 10 00
" No. 1	8.00 to 10 00	6.00 to . .	10 00 to 12.50	4.00 to 6.00
" Lower grades	4.00 to 6 00	. . . to .	5.00 to 8.00	3.00 to 4.00
Carnot and Kaiserin	..... to	..... to 10.00	..... to	4 00 to 12.00
Golden Gate, Ivory, Chatenay { Best	10 00 to 12 00	6 00 to . .	10.00 to 12.00	5 00 to 6.00
Golden Gate, Ivory, Chatenay { Medium	8 00 to 10 00	..... to	6.00 to 8.00	3.00 to 4.00
Golden Gate, Ivory, Chatenay { Culls	4 00 to 5.00	..... to	3.00 to 5.00	1.00 to 2.00
CARNATIONS				
Fancy Class	4.00 to 5 00	to 5 00	5 00 to 6 00	.... to .....
General Class	3 00 to 4.00	..... to	3.00 to 4 00	1.00 to 2.00
Lower Grades	2.00 to 3 00	3.00 to	1.50 to 2 50	..... to .....
ORCHIDS				
Cattleyas	50 00 to 75 00	to .	15.00 to 50 00	. . . . to . . .
Cypripediums	..... to	. . to . .	. . . to	..... to .....
BULBOUS				
Lilies	10 00 to 15 00	12.50 to 15 00	6.00 to 10 00	6.00 to 10.00
Lily of the Valley	2 00 to 3.00	3 .00 to 4 00	3 00 to 5.00	2 00 to 3 00
Stocks	to	. to 3.00	..... to	1.00 to 2.00
Daffodils	3 00 to 4.00	. . . to 3 00	..... to . .	. . . to 1.00
Tulips	2.00 to 6 00	..... to	2.00 to 4 00	..... to 1 00
Callas	8 00 to 12 00	2 00 to 5 00	..... to . .	6.00 to 8 00
Freesia	..... to	to	..... to	..... to .....
MISCELLANEOUS				
Mignonette	2.00 to 12 00	to . . .	3.00 to 4 00	1.00 to 2 00
Sweet Peas	.75 to 1.25	.50 to .75	1.00 to 2.00	.50 to 1.00
Adiantum Cuneatum	75 to 1.00	to 1.25	75 to	.75 to 1.00
" Croweanum	to . . .	to . . .	1 25 to 1.50	. . . to .....
" Farleyense	to	to . . .	to . . .	. . . to .....
Smilax	15 00 to 18 00	. . . to 15 00	15 00 to 20 00	12 00 to 15.00
Asparagus Plumosus; strings	35 00 to 50 00	to . . .	25 00 to 50 00	35.00 to 50 00
" " bunches	25.00 to 35 00	25 00 to 75.00	25 00 to 50.00	35 00 to 50 00
" Sprengeri "	25 00 to 30 00	. . to . . .	35 00 to 50.00	25 00 to 35 00
Gardenias	16.00 to 25 00	..... to . . .	12.50 to 15.00	..... to .....
Lilac per bunch	.50 to 1 00	. . to . .	.25 to 1.00	..... to ....

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids Valley Violets and all Cut Flowers

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

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J. A. BUDLONG
37-39 Randolph Street, CHICAGO
Roses and Carnations A Specialty.....
WHOLESALE GROWER of CUT FLOWERS
In writing to advertises, kindly mention HORTICULTURE

WEILAND AND RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

BUSINESS CHANGES

The greenhouses of George A. Black at Brighton, Mass., have been leased to I. M. Gauley.

Louis Villner has opened another store in Madisonville, O., in addition to his Walnut Hill's place.

W. C. Ross has disposed of his business and greenhouses at Wellsville, N. Y., to Yewdall & Boyce.

The Whitten estate in Dorchester, Mass., was recently sold at auction to the holders of the mortgage for $51,000.

The business of the late Mrs. S. L. Stebbins at Corry, Pa., will be conducted hereafter by Mrs. M. E. Caldwell.

Clucas & Boddington Co. are about to remove their New York establishment to very convenient and spacious quarters at 131 West 23d street.

The Yuess Flower Shop, with Oswald J. Cathcart as manager has opened at 91 Water Street, Newburgh, N. Y. The store is one of the finest in the state.

The Wasson Floral Co.'s greenhouses formerly located at Woodlawn, N. Y., have removed to Orchard Park, N. Y. Extensive improvements have been added and they now have every facility for growing cut flowers and vegetables.

P. Demas of Pittsburg Florists' Exchange has secured a lease on the whole building which had been partly occupied by him and had a force of men working night and day to get the place in shape for Easter. He is having erected one of the largest and widest ice boxes in the state, and when completed the establishment will be one of the greatest acquisitions to the newly widened thoroughfare of Pittsburg. Lowe & Jones of Diamond street have also to vacate their present stand and have not yet decided where their future location will be.

BUSINESS CHANGES IN CHICAGO

Harry B. Tufts is successor to Graff & Co. at 90 Washington Street.

Miss E. L. Drake of Minneapolis will open a flower store at 107 N. State street.

C. Brown, formerly of the Central Floral Co., opens his new store at 1272 E. Ravenswood Park.

Hillman's new State street department store is to have an up-to-date cut flower and plant department which will be under the able management of Robert P. Northam.

Julius Niesen bought John H. Holden's fine store at 753 E. 47th street. Mr. Niesen was for many years connected with E. Wienhoeber Co., and later with E. Asmus & Co.

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK

American BEAUTIES
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON
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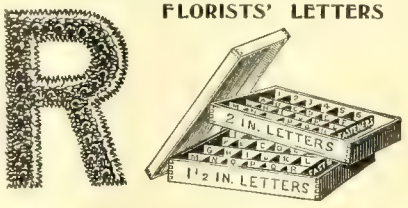
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1½ or 2-inch size, per 100, $2.00.
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Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

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FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000, $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 35c. per large bundles. Southern wild Smilax, 50 lb cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.
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Wholesale FLORIST
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Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

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Fine Roses
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American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100 TO DEALERS ONLY

	Last Half of Week ending April 22 1905	First Half of Week beginning Apr. 24 1905
ROSES		
Am. Beauty, fan. and sp	15 00 to 40 00	10 00 to 20 00
" extra	8 00 to 20 00	8 00 to 10.00
" No. 1	3 00 to 12.00	3 00 to 8.00
" Lower grades	1 00 to 5 00	1.00 to 3 00
Bride and Maid, fan. and sp.	6 00 to 12 00	5 00 to 6.00
" " extra	5 00 to 10.00	3 00 to 5.00
" " No. 1	4 00 to 6 00	2.00 to 3.00
" " Lower gr	2 00 to 3.00	1.50 to 2.00
Liberty, fan. and sp.	15 00 to 25 00	10 00 to 15.00
" extra	10 00 to 12 00	5.00 to 6 00
" No. 1	4 00 to 8 00	3.00 to 4 00
Meteor	1 50 to 3 00	1.00 to 1.50
Carnot and Kaiserin	to	to
Golden Gate Best	10 00 to 12 00	4 00 to 8.00
Ivory Medium	6 00 to 8 00	2 00 to 4 00
Chatenay Culls	2.00 to 3 00	1 00 to 2.00
CARNATIONS		
Fancy Class	4.00 to 8 00	2 50 to 4 00
General Class	2 00 to 4 00	1.50 to 2.50
Lower Grades	1 00 to 2.00	.50 to 1.50
ORCHIDS		
Cattleyas	50 00 to 75 00	50 00 to 60 00
Cypripediums	to	to
BULBOUS		
Lilies	5 00 to 10 00	4 00 to 8.00
Lily of the Valley	2 00 to 4 00	2.00 to 4.00
Stocks	to	to
Daffodils	1 00 to 2 00	.50 to 1 00
Tulips	1 00 to 4 00	.50 to 4.00
Callas	5 00 to 8 00	4 00 to 6 00
Freesia	to	to
MISCELLANEOUS		
Mignonette	1 00 to 3 00	1 00 to 3.00
Sweet Peas	.50 to 1 00	.50 to .75
Adiantum Cuneatum	.50 to 1 00	.50 to 1.00
" Croweanum	to 1 50	to 1 50
" Farleyense	12.00 to 15.00	10 00 to 15 00
Smilax	15 00 to 20 00	15.00 to 20 00
Asparagus Plumosus, strings	20 00 to 35.00	25 00 to 50 00
" " bunches	20 00 to 35.00	20.00 to 35 00
" Sprengeri "	12.00 to 25 00	15.00 to 25 00
Gardenias	4 00 to 35 00	4.00 to 12.00
Lilac, per bunch	.50 to 1 00	.25 to 1.00
Jacq	to	to
Brunner	to	to

'PHONES 1547 P. A., 1259 Court Bell
Pittsburg Florist Exchange
Wholesale Commission Florists
228 DIAMOND STREET, PITTSBURG, PA.
Best Beauties: BRIDES, MAIDS, VIOLETS, HARRISII, LILY OF THE VALLEY
Fancy home grown Carnations a specialty
GIVE US A TRIAL

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Cut Flowers on Commission
A Reliable Place to Consign to or Order from
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Wholesale Florist
CUT FLOWER EXCHANGE
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Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
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YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
Traendly & Schenck
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Telephones, 798-799 Madison Square
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Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
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ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI April 23	BALTIMORE April 3	BUFFALO April 25	PITTSBURG April 25
ROSES				
Am. Beauty, fan. and sp.	..... to 45 00	25 00 to 35 00	30 00 to 35.00	50.00 to 75.00
" extra	35 00 to 40 00	15 00 to 20.00	20.00 to 30.00	40.00 to 50 00
" No. 1	15.00 to 25.00	10 00 to 12.50	15.00 to 20.00	25 00 to 30.00
" Lower grades	6 00 to 10.00	3.00 to 6.00	4.00 to 10.00	10.00 to 12.00
Bride and Maid, fan and sp.	..... to 10.00	... to	10 00 to 12 00	10 00 to 15 00
" " extra	6 00 to 8.00	7.00 to 8 00	8.00 to 10 00	8 00 to 10 00
" " No. 1	..... to 5.00	... to 6 00	5.00 to 8 00	6.00 to 8.00
" " Lower gr.	3 00 to 4.00	4 00 to 5.00	3.00 to 5.00	3 00 to 4 00
Liberty, fan. and sp.	..... to 10 00	..... to	10.00 to 15 00	15.00 to 20 00
" extra	..... to	... to	8.00 to 12.00	12 00 to 16.00
" No. 1	..... to	.. to	5 00 to 8 00	6 00 to 8.00
" Lower gr.	6 00 to 8 00	... to	3.00 to 5.00	3.00 to 4.00
Carnot and Kaiserin	..... to	8 00 to 10 00	..... to	..... to .....
Golden Gate, Ivory, Chatenay — Best	..... to 8 00	6.00 to 7.00	8 00 to 10.00	6 00 to 10 00
Golden Gate, Ivory, Chatenay — Medium	..... to 6.00	4 00 to 5 00	4.00 to 8 00	4 00 to 6 00
Golden Gate, Ivory, Chatenay — Culls	..... to 4.00	..... to	3.00 to 4 00	..... to .....
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	... .. to 6 00	2 00 to 2.50	3.00 to 5.00	6 00 to 8 00
General Class	4.00 to 5.00	1.50 to 2 00	2.00 to 3 00	4.00 to 5.00
Lower Grades	..... to 3.00	1.00 to 1.25	1.00 to 2.00	2.00 to 3.00
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	12 50 to 15 00	6 00 to 12 50	8.00 to 12.00	15 00 to 18 00
Lily of the Valley	..... to 4.00	3.00 to 4.00	3.00 to 4 00	4 00 to 6.00
Stocks	..... to	1.50 to 2.50	..... to	..... to .....
Daffodils	1 00 to 2 00	2 00 to 3 00	2 00 to 4 00	..... to .....
Tulips	2.00 to 3 00	.25 to 1.00	..... to	4 00 to 6 00
Freesia	.... to ..	..... to	..... to ...	..... to .... .
Callas	.... to	50 to 1.50	..... to	. . to .. .
MISCELLANEOUS				
Mignonette	..... to	2 00 to 3 00	2 00 to 4 00	6 00 to 8 00
Sweet Peas	1 00 to 1.50	50 to 75	.50 to 1.00	1 00 to 2 00
Adiantum Cuneatum	..... to 1.00	.. to 1.00	.50 to 1 00	1 00 to 1 50
" Croweanum	..... to	.... to	..... to 1 50	.... . to ....
" Farleyense	..... to	..... to	10 00 to 12.00	.. to .
Smilax	12 50 to 15 00	15 00 to 20 00	15 00 to 20 00	12 00 to 18.00
Asparagus Plumosus, strings	..... to 50 00	25 00 to 50 00	50 00 to 60 00	40 00 to 50 00
" " bunches	..... to 35.00	.... to	25 00 to 50 00	20 00 to 40 00
" Sprengeri "	25 00 to 35.00	..... to	25 00 to 50 00	40 00 to 60 00
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, per bunch	..... to	..... to	.75 to 1.50	..... to .....

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Sutherland Geo. A. Co.	744
Suzuki & Iida	728
Swank Hardware Co.	751
Sylvester H. H.	753
Situations and Wants	750
Thorburn J. M. & Co.	750
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Traendly & Schenck	747
Ure J. C.	726
Vaughan's Seed Store	750
Waban Rose Conservatories	728
Walsh M. H.	727
Ward Ralph M. Co.	750
Watson G. C.	753
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Welch Bros.	745
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Wietor Bros.	745
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Young John	746
Young & Nugent	747
Young Thos. Jr.	745
Young A. L. & Co.	747
Zangen O. V.	750

Buyers' Directory and Ready Reference Guide

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Lilium Harrisii.
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BULB FLOWERS.
W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2½-in pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $ 50 each; 500 plants at $ 45 each: 1000 plants at $ 40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on Hudson, N. Y.

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100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100, $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

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C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

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Asparagus Plumosa Nana and Smilax.

Conrad Appel, Darmstadt, Germany. Estab. 1780
High Grade Grass, Clover, and Tree Seeds.

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GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

ASSISTANT WANTED on a Commercial place; one who understands growing Bride and Bridesmaid roses. Good wages and steady place to right man. Dean & Co., Little Silver, N. J.

FOR SALE - Eight miles from Boston, two greenhouses 60x20 ft.; one greenhouse 20x10 ft.; one sash house 60x8 ft. Heated by hot water. All in good condition. For particulars apply to F. W. SAWTELLE & CO., Readville, Mass.

FOR SALE OR TO RENT — Establishment consisting of five greenhouses each box 100, and two each 20 x 50, in good order, heated by Hitchings boilers, planted and in high state of cultivation. One and a half acres of land. Located on Long Island within three miles of 34th Street Ferry. Address B. A., care HORTICULTURE, 11 Hamilton Place, Boston.

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE

Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y
In writing to advertisers, mention HORTICULTURE

NEW CROP SEEDS

Cineraria Michell's Grandiflora Prize
The finest strain procurable; produces immense trusses of the largest flowers.
Dwarf Mixed..... Half trade pkt. 60c.
Medium Tall Mixed .. Trade pkt. $1.00

UNSOLICITED TESTIMONIAL
Dear Sirs — The Cineraria seed I procured from you gave the best results of any I ever used. your catalogue description does not do them justice. Sincerely yours,
HARRY OBERT, Florist,
June 28th, 1904. Pleasantville, N. J.

Primula Michell's Fringed Chinese
We have the choicest strain from a **Leading Primula Specialist**; large flowers, beautifully fringed.

	½ trade pkt.	Trade pkt.
Alba Magnifica, White	$ .60	$1.00
Holborn Blue	.60	1.00
Kermesina Splendens, Crimson	.60	1.00
Rosy Morn, Pink	.60	1.00
Michell's Prize Mixture	.60	1.00

HENRY F. MICHELL CO.
1018 MARKET STREET PHILA. PA.
Send for our wholesale Price List of Seeds, Bulbs, etc.
In writing to advertisers, mention HORTICULTURE

Boxwood for Edging
Bushy Transplanted Plants, 6-8-inch
per 100 $6.00, per 1000 $40.00
O. V. ZANGEN
Hoboken, N. J.

W. W. RAWSON & Co. Arlington Tested SEEDS BOSTON MASS.
RAWSON'S Arlington Tested **SEEDS** For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
In writing to advertisers, mention HORTICULTURE

BULBS
HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
17 Battery Pl. New York

Tuberoses, Lily of The Valley
Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 No. Market St. Boston, Mass.
In writing to advertisers mention HORTICULTURE

BURPEE'S SEEDS
PHILADELPHIA
Blue List of Wholesale Prices mailed only to those who plant for profit.
In writing to advertisers, mention HORTICULTURE

Thorburn's Bulbs

CYCAS REVOLUTA
At $8.00 per 100 ll ..

LILIUM SPECIOSUM MELPOMENE
7-9 inch size, 200 in a case, at $6.00 per 100

LILIUM AURATUM
9-11 inch size, at $6.00 per 100

COLD STORAGE VALLEY PIPS
In cases of 3000, at $10.00 per 1000

LILIUM HARRISII
LILIUM LONGIFLORUM
LILIUM LONGIFLORUM MULTIFLORUM
Prices according to quantity upon application

J. M. THORBURN & CO.
36 Cortlandt St., New York.
In writing to advertisers, mention HORTICULTURE

GLADIOLI
THE BEST IN THE WORLD
Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.
WRITE FOR ILLUSTRATED CATALOGUE
ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

Schlegel & Fottler Co.
26 So. Market St., Boston, Mass.
Are Headquarters for
Seed Potatoes
Vegetable, Flower and Grass Seeds
Send for Catalogue
In writing to advertisers, mention HORTICULTURE

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts
Leading Machines
32 So. MARKET ST., BOSTON
In writing advertisers, mention HORTICULTURE

Quality Seed Bulb Plant **S**
Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street *NEW YORK*

WANTED. — A first-class salesman of florist ware to handle our increasing business. Apply at A. H Hews & Co., Inc., Cambridge, Mass.

GREENHOUSES BUILDING OR PROJECTED

ST. LOUIS, MO. — Henry Aul, two houses.

KENTON, O. — Gilmore & Rosenberger, three houses.

FRAMINGHAM, MASS. — S. J. Goddard, one carnation house.

ALLIANCE, O. — Lamborn Floral Company, range of houses.

SARANAC LAKE, N. Y. — P. H. Ryan, three houses, each 22 × 100.

WHITESTONE, N. Y. — Pankok & Schumacher, two houses. Hinode Florist Co., three houses each 25 × 150.

WESTERLY, R. I. — William Smith, carnation house 21 × 109 and connection house 9 feet wide. Material furnished by Lord & Burnham Co.; work done by Alfred C. Smith.

Reported by J. C. Moninger Co., Chicago.

HANCOCK, MICH. — A. M. York, house 40 × 100.

SPRINGFIELD, ILL. — O. C. Brown, house 30 × 317.

DES PLAINES, ILL. — Frank Garland, house 27 × 150.

OLIVETTE, WIS. — Range of short-roof houses, 52 × 130.

DENVER, COL. — C. F. Maler, four houses each 100 ft. long

GLENCOE, ILL. — Miss N. F. Howard, violet house, 25 × 66.

PARK RIDGE, ILL. — Fred Schramm, two houses, each 32 × 110.

WELLINGTON, O. — T. G. Yale, two houses, each 21 × 100.

NEW CASTLE, IND. — Peter Weiland, two houses, each 29 × 300.

NEVADA, MO. — J. P. Kaupp & Son, two houses, each 24 × 100.

RICHMOND, IND. — Herman R. Frank, two houses, each 33 × 309.

MORTON GROVE, ILL. — Poehlman Bros., seven houses, each 27 × 184.

MCKEESPORT, PA. — McKeesport Floral Co., two houses, each 26 × 300.

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COUNCIL BLUFFS, IA. — Reams Lanson Greenhouses, two houses, each 25 × 260.

MARSHALLTOWN, IA. — I. O. Kemble, house 29 × 66, two houses, each 22 × 145.

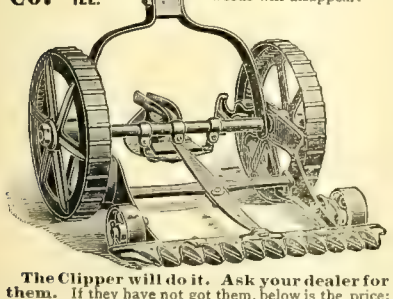
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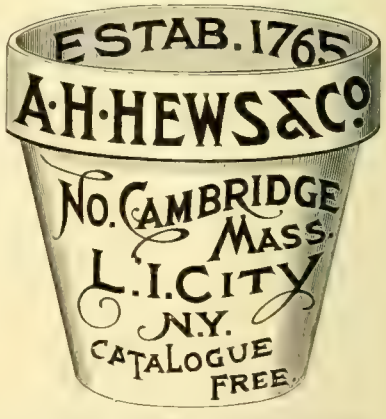
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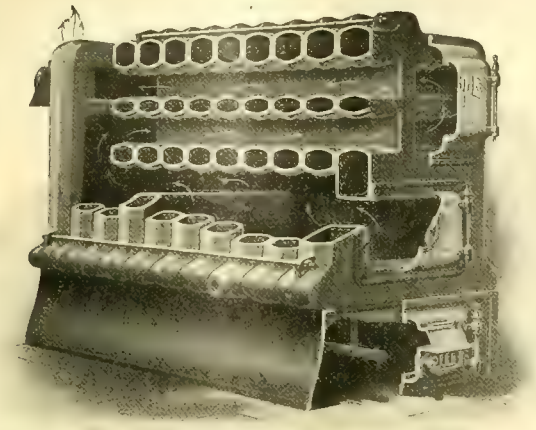
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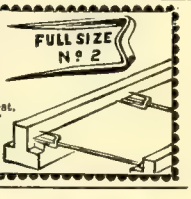
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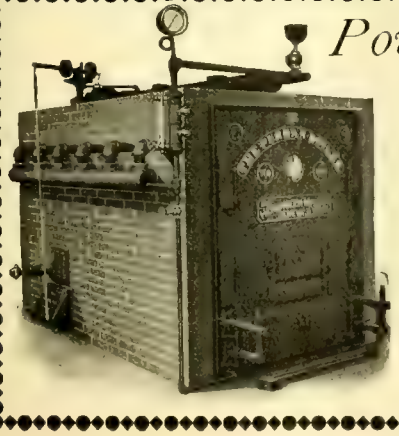
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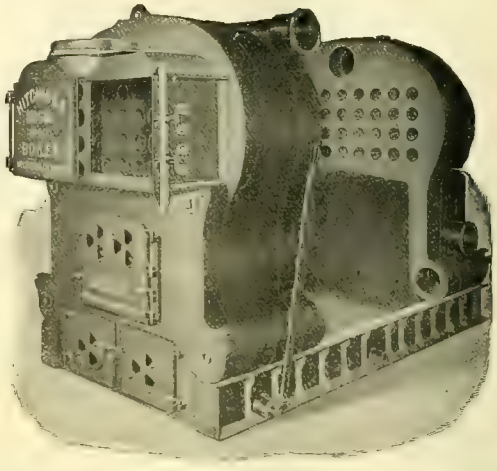
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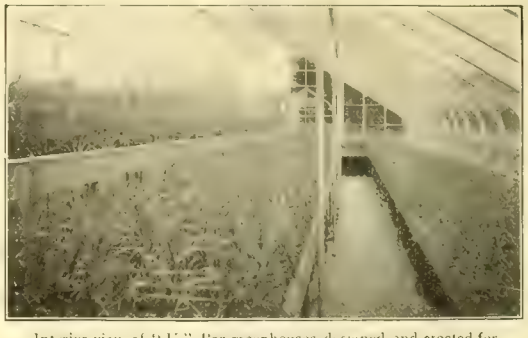
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Vol. I MAY 6, 1905 No. 23



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VOL. I | MAY 6, 1905 | NO. 23

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Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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SCOTCH PINE,	3 to 4 ft	$7.50
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1 to 3	feet	$2.00 per 100		$18.00 per 1000	
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makes a Standard Easter Plant. Its keeping qualities are above any other kind of flowering plants at present grown.

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PRICES:—2¼-inch pots, $9.00 per doz; 50 plants at 60c each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each 5-inch pots $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

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$10.00 per 100

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Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

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YOUNG ROSES

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GRAFTED BRIDES and BRIDESMAIDS on Irish Stocks. $12 per 100.

Robert Scott & Son
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Rooted Cuttings, Golden Bedder and C. Verschaffeldtii		$6.00 per 1000
Rooted Cuttings, Mixed		5.00 "
2 1-4 Pots		15.00 "

The above ready now. Cash must accompany the order.

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CYCLAMEN SPLENDENS GIGANTEUM HYBRIDS

Once transplanted,	$2.00 per 100	$18.00 per 1000
Twice "	$3.00 per 100	$25.00 per 1000

Seed of only selected flowers and well-built plants. None better.

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Just at hand in superb condition. WRITE FOR PRICES.
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Sultana Impatiens
IN BUD AND BLOOM

2 inch pots, per 100	$2.50
3 " " " "	4.00
4 " " " "	5.00

VARIEGATED VINCA

3 inch pots, per 100	5.00

JOHN C. URE, 2843 Evanston Av., CHICAGO

In writing to advertisers, mention HORTICULTURE

Evolution of the Grape

The grape is in the midst of an evolution. It is believed by scientists that the grape at some time in the distant past was a complete hermaphrodite, having the stamens and pistils in the same flower, but at the present time, both staminate and pistillate forms are found, and among the wild vines, the staminate form largely predominates and still oftener among hybrids. The cause of this change is probably due to climatic changes that render conditions less and less favorable to the life of the plant, and in the struggle for existence, and for harmony with existing conditions, the two are being established to divide the burdens between them. The production of pollen is very exhausting to a plant, and if that burden can be placed upon a separate vine, the pistillate vine is greatly relieved and it is probable that not so very far in the future the two forms will be entirely distinct, and if the increasing preponderance of the male form continues it may be viewed with not a little alarm as threatening the existence of genus vitis, or compel its propagation by cuttings.



Flower of Staminate Grape, Mammoth Cluster; Natural Size

Some years ago, the writer obtained one hundred vines from the seed of a wild Vitis Labrusca vine and seventy-five of them were staminate. Another experiment with hybrid seeds, seven out of eight were staminate, a close call to a clean sweep.

Many of the pistillate vines are now self-sterile on account of the impotency of their pollen, showing a tendency to the abandonment of the production of pollen entirely, while the pollen of the staminate vines is always perfect and potent. I have taken advantage of this peculiar condition of the grape and have produced a remarkably fine staminate vine, named "Mammoth Cluster," that has exceedingly large clusters of blossoms, as the accompanying photo indicates, which I use as a male parent, and I also have a self-sterile pistillate vine that I use as a mother vine. By that means the work of hybridizing is very much simplified. Still it is not all gain, as I get many more staminate seedlings than I would if I used pollen from a self-fertile vine.

Again it is very doubtful as to whether our fruiting vines can be indefinitely perpetuated by propagating from cuttings or slips, for I have on my grounds a vine that has fruited but three times in about forty years, showing that it has well nigh gone over to a staminate form. It blossoms full every year but the blossoms are all staminate except in the above mentioned cases.

R. B. White

Echoes from England

ENGLISH AND AMERICAN APPLES

A good deal of interest has been aroused by the publication of some correspondence on this subject in one of our gardening papers. The point of difference between the writers is as to the superiority of flavor between English-grown apples and those imported from America. Some go so far as to say that there is nothing to equal a Newtown Pippin after Christmas, for by then our premier apple, Cox's Orange Pippin, is past its best, and none other is as acceptable as the Newtown. Others assert that Cox's Orange Pippin (which every one admits to be unsurpassed during November and December) may be kept in good condition until now (the end of March), but even excluding this variety there are others better at this season than Newtown Pippin, for instance Claygate Pearmain, Sturmer Pippin and others. The editor of the journal referred to has received from several enthusiastic fruit growers, anxious to uphold the reputation of our late home-grown varieties, fruits of Cox's Orange Pippin which were as good practically as in December, and certainly to be preferred to imported Newtown Pippins. It seems to be largely a question of good and bad storage. If Cox's Orange Pippin is not carefully stored it loses its juiciness and that rich aromatic flavor which place it above all other dessert apples, and is only second-rate in the new year, certainly not equal to a good juicy Newtown. There is no doubt that the handsome appearance of American apples goes far to commend them to the British public, and their fresh looks probably accounts to a large extent for the manner in which they are preferred to late home-grown apples, which often are not to be compared with them, so far as appearance is concerned. If we could raise a few handsome, free-bearing late keeping apples of moderate flavor we should perhaps have some chance of competing successfully with American-grown produce, but at present we do not seem to have achieved this. Fruit growers in this country have tried Newtown Pippin, but it has not proved at all satisfactory.

DAFFODIL SHOWS

I do not know whether the narcissus is a very highly esteemed flower in America, but here we have special societies devoted to its welfare, and it has been brought to a high pitch of excellence. The Royal Horticultural Society has a Narcissus Committee, whose duty it is at the fortnightly meetings during March and April (the "Daffodil months"), to judge the numerous displays of this flower and to bestow awards upon individual varieties thought to be sufficiently good. Every spring numerous new varieties are raised and some of them are extremely beautiful: they have been greatly improved in form by the hybridist and he has blended colors most exquisitely in some of the newest sorts. A sensational flower raised and shown by Messrs. Barr and Sons, of Covent Garden, not very long ago was a white trumpet daffodil, called Peter Barr. This was catalogued at 50 guineas a bulb, and now I believe is little if any less in price. Daffodils and tulips are most successfully grown in some parts of this country, for instance, in the lowlands in the eastern counties, where conditions are not greatly dissimilar from those prevailing in Holland — the greatest bulb producing country in the world.

In these English counties you can see acres of narcissi and tulips and they vie in beauty with the wonderful bulb farms of the Dutch. We have several important societies throughout the country devoted solely to the daffodil and a few other spring-flowering bulbs, and they hold exhibitions in the spring; at these the rarest and newest beauties are to be seen.

A NEW SMILAX

The common smilax (Mediola asparagoides) is I believe as popular a market plant in America as it is in this country. A new variety called myrtifolia, much more graceful than the type is increasing in popularity and will no doubt, when better known, be largely grown. If I remember rightly this is of American origin, but of this I am not sure. Messrs. Hugh Low & Co., Bush Hill Park Nurseries, Enfield, London, introduced it into this country and they have been instrumental in distributing it. The West End florists are taking it up, and prefer it, on account of its light and graceful foliage, to the ordinary smilax. It shows to great advantage in dinner table decoration.

NEW TREE CARNATIONS

The hybridist appears to have been busy among these lately for several new varieties have been shown quite recently. Flamingo was the name of a rich red variety that obtained a certificate from the Royal Botanic Society last week and to-day Messrs. Hugh Low & Co. showed a beautiful rich pink called Fascinator. It is something like Enchantress, but it is a richer color and has a fuller center. Coronation is the name of another new one, worth mentioning on account of its almost smooth petals, in contradistinction to most others which have fringed petals. Mrs. Lawson, America, and other well-known sorts are as popular as ever. There is nothing to excel Mrs. Lawson for bright, rich coloring.

A PURPLE CYTISUS

Cytisus purpureus is not nearly so common as its yellow-flowered relatives, and for this reason is worth culture. I have never seen cytisus in pots in finer condition than were shown to-day in the Horticultural Hall by Messrs. Cuthbert, Southgate, London, N. W. It was a variety of Cytisus purpureus called incarnatus: it bears light purple flowers similar to those of Cytisus purpureus, but they are finer and most freely produced. Plants in pots of only 6 or 7 inches in diameter carried 20 shoots each one of which was almost smothered with flowers. Such a free-blooming plant ought to be valuable for market culture.

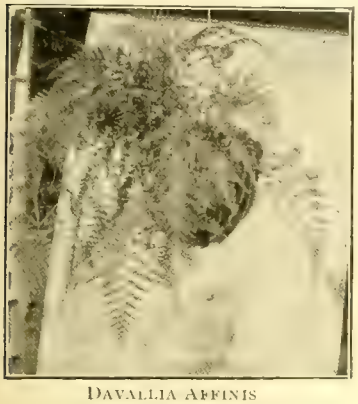
Harry H. Thomas

London.

Ferns for Every-Day Use

DAVALLIA

This is one of the most interesting, picturesque, and ornamental genus of the fern family on account of the scaly, creeping rhizome of most of the species, and the gay green color of the finely divided solid fronds; geographically they are widely distributed and, to be grown with success, require stove or greenhouse protection. Those with apparent rhizomes do well in hanging baskets, on rocks, on old fern or other tree trunks and other material which their rhizomes can grow over. When grown in pots, the pots must be nearly half-filled with crocks or broken bricks and the plants set higher than the pot-rims in a mixture of fibrous peat or good sandy leaf mould mixed with chopped sphagnum. It would be injurious to bury the scaly rhizomes in the soil. They must be well-watered during the growing period and sparingly in winter, but never allowing to let them dry off, for then the next growth would make short fronds. They like to be near the glass where they can get all the light, and do not like to be syringed overhead. Those with underground rhizomes like a good light fern soil.



DAVALLIA AFFINIS

They are propagated by division of the rhizomes or by spores. The spores grow in little bags of different forms, open at the top and found at the edge or near the edge on the under surface of the fronds. Sometimes they are very apparent, the involucre being bordered red or brown. The section with overground creeping rhizomes is the most numerous and contains good hardy plants. When once established those hairy or scaly colored rhizomes which are the great ornament of these ferns can be cut back, when grown in pots, to make the plants grow more bushy. The best are the following:



DAVALLIA BULLATA

Davallia affinis from the South Sea Islands has fronds one to two feet long, half as broad and finely divided and sharply toothed on long slender stalks; the much creeping rhizomes are clothed with rusty-colored scales.

D. bullata is the "squirrel's foot fern" from Japan from which fern balls and other designs are made. In natural cultivation the fronds grow much bigger.

D. Canariensis from southern Europe and northern Africa is the "hare's foot fern," one of the best known and an old favorite if not the first in cultivation. The knotty rhizomes are very apparent, thick, covered with small pale brown scales, like D. bullata. Does not require much heat, and one of the most desirable for dwelling rooms.

D. dissecta or elegans dissecta from Java and the Malayan archipelago is one of the best for decorative purposes. From a scaly, rusty-colored rhizome, grow in abundance, large, one and a half feet long, light green fronds, well divided.



DAVALLIA CANARIENSIS

D. divaricata or polyantha, from north India is one of the biggest growing; the fronds, two to three feet long are triangular and of claret-red color when young, turning to bronze and then deep shining green when ripe. Those three colors can be seen nearly all the year round on the plant, giving a very pleasing effect. It has a knotty, thick, rusty-colored, scaly rhizome.

D. Fijensis from Fiji Island is a well-known species. The fronds are the most finely divided of all the davallias and of strong texture; the rhizomes are thick and straight-growing, covered with small, gray scales. D. F. major, elegans, and plumosa are very nice forms from it, the first more robust growing, the other more finely cut; plumosa especially has the fronds large and drooping; the linear divisions are very finely divided.

D. hirsuta and D. Mariesii, both from Japan, are dwarf species, the spear-shaped fronds seldom one foot long; they are finely divided and the long, slender creeping rhizomes are used the same way as bullata for fern balls.



DAVALLIA FIJENSIS

D. Mooreana or D. pallida from Borneo, is one of the best known and most cultivated. The pale green, robust fronds are two to three feet long, long-stalked and triangular in form, the pinnules are wedge-shaped and lobed at the top. The rhizomes are thick, creeping and covered with brown-colored scales.

(To be continued.)

Pelargonium Ivy-Leaved

Ivy-leaf pelargoniums are very decorative greenhouse plants. Being adapted to various methods of training, they can be used to good advantage and with excellent effect in many ways. In large vases for out-door embellishments, planted around the edges of such vases where they droop over the side, and in combination with other plants of an upright habit, they make a splendid showing. For suspended baskets in the conservatory they are particularly charming when in flower; yes — and even out of flower, their glossy dark-green leaves being quite attractive.

Trained on trellises of conical form or other shapes, they make objects of great beauty. I recall with much pleasure and not a little pride a dozen plants I used to have annually thus trained a number of years back, bristling all over with massive flower trusses, standing three and one-half to five feet high. Plants of this description for exhibition or any purpose are calculated to excite admiraton.

In order to accomplish pyramids of this size plants must be kept over for several years, partially drying them off in early fall, but never to the extent of shriveling the vines. I used to keep them in this semi-dormant state up to the latter part of January. When more water was given they soon started and broke freely thereafter, covering the trellises with luxuriant green foliage and vine in a short space of time; they flowered in May and June.

Planted out in convenient places in the greenhouses and trained vertically to wires, they not only make an object of beauty to look upon but are exceedingly useful for cut-flower purposes, as longer stems are produced to the flower trusses thus treated. They are also very effective in clothing pillars and such other bare and objectionable features. They are likewise excellent subjects for bedding-out purposes; pinned to the ground after the manner that verbenas and similar rambling characters are treated, they are extremely pleasing. While the best results are always to be looked for by treating them with the best material obtainable in the shape of soils and ingredients to enrich the same, they are by no means dainty as to requirements in this respect.

Large plants can be grown in comparatively small pots, that is, the larger plants ought to look beyond all proportions to the pots they may be grown in; for they are much easier carried over from year to year thus. Pots commensurate with the size of plants as applied to most other plants, do not apply so forcibly to any of the geranium family, especially in the stages of development that I have in mind, which is the flowering and old-age stages. I must not be understood by the readers of this article as advocating cramped quarters while the plants are young and going through the formation stage.

Thirty or less years ago there were no so-called double varieties, but nowadays there are more doubles than singles apparently. I will now mention a few of the very best varieties of the latter that came under my own observation, following the order of excellence, as they appealed to my own taste. I believe in doing this that I will render greater service to the young beginner than if I attempted further cultural details. Souvenir de Charles Turner is a splendid variety, deep rose-shaded amaranth. Ryecroft Surprise, pleasing shade of salmon-pink — a sport of the former if my memory serves me — a sturdy grower and altogether a superb variety. Galilee, beautiful clear rose of strong habit. Eden Marche, similar in color to the latter but somewhat deeper shade of pink. Madame Thibaut, rich carmine rose. Madame Crousse, flowers very large, semi-double, delicate rose, veined in the upper petals with deep maroon. Sarah Bernhardt, large flowers, white upper petals feathered maroon. Jeanne d'Arc, white suffused with lavender on opening. Emile Lemoine, rich orange scarlet, fine. Josephine von Hohenzollern, large, dense trusses of very double flowers of a bright, cherry-crimson shade. Leopard, of recent introduction, semi-double, flowers large, lilac-pink ground blotched with carmine and grayish white. Newton, flowers large semi-double vermillion red.

E. Findlayson

Cypripedium Hybrids at Whitinsville

Besides the many fine plants of insigne and other well-known varieties of cypripediums grown here Mr. McWilliam has raised and flowered over two hundred seedlings, for some of which he holds five silver medals and several first-class certificates awarded by the Massachusetts Horticultural Society. Over thirty types of Leeana have already flowered; some of them are clear light and others have darker shades of yellow; some have no spots, others beautiful bars of brown. Many of this type have the blood of old insigne in them, and many have not yet flowered. Other crosses, one × Lawrenceana and Philippiensis, named Hobsonii, is of robust growth, and has quite dark-barred flowers on strong stems; another Isabellæ, is × between Spicerianum and niveum, very fine; one, Mme. Gabrielle Moen, × between callosum and Spicerianum, is also good. There are many other crosses which, when they come to flowering age, will no doubt be worth notes and find honorable places among their distinguished fellows in the plant world.

Wm Swan

Do You let Them Know It?

Nothing except the mint can make money without advertising. — *Gladstone.*

When you pay more for the rent of your business house than for advertising your business, you are pursuing a false policy. If you can do business let it be known. — *Franklin.*

"By George, I'm slower than a funeral about that 'ad.' in the *Bellview Mirror!* I intended to put it in a month ago to tell the suburbanites that I not only know how to grow roses and carnations, but am also the man they want to fix up their grounds. Somehow it has been overlooked and I believe I am losing business through this oversight; but I'm going to drive over there and put it in this very day."

This was said to me by a florist early in March, and I am now informed by him that the results of that publicity have been highly gratifying; that he has had several good sized contracts and a whole lot of small jobs.

Now — how many local growers are missing just such opportunities? I believe many of them are. Of course, all do not have ability in that special line; others are too big to bother; but when both these ends are lopped off there still remains a solid mass who could add to their incomes without encroaching in the least on their cut-flower trade, whether same be wholesale or retail.

A subscriber told me the other day that what he especially liked about HORTICULTURE was its suggestiveness in a business way. It inspired one to think how he could apply propositions to his own case. This matter of local advertising is an instance in point and I believe many could profit by it.

In this connection I want to call attention to the local advertising of two of our Philadelphia seed houses.



These examples are typical of good matter well displayed and might serve the suburban florist as a model for what he has to say to his neighbors. Mr. MacKubbin is the Dreer advertising expert but in this instance he tells me that all the local "ads" were written and placed by H. I. Ireland. They are well done and Mr. MacKubbin says the results have been very gratifying. We have not had an expression of opinion from Mr. Michell, but the fact that he keeps it up year after year and that he is now doing one of the finest counter trades in the country, speaks well for the idea and its execution.

While I'm on this subject of advertising I want to add a word to the man who has a surplus of something. Nine times out of ten some one, somewhere, will be short of just that thing and a card in HORTICULTURE is the quickest and cheapest way of connecting. This is an entirely different matter from general publicity advertising. The latter is intended for business building in a general way — making people familiar with the name, and may be regarded more as an investment than an expense, while the special surplus card is meant for immediate results in a temporary sense only.



A Success from the Start

ADVERTISERS are finding out that HORTICULTURE PAYS THEM WELL.

Did you ever know of a weekly paper that carried so much advertising and had so many advertisers during its first five months? The reason is plain. The horticultural profession was ready for just such a paper as we have been giving them.

If you want to do business with the intelligent and prosperous horticulturists of to-day, You Can't Afford Not to Advertise Regularly in HORTICULTURE.

Dear Sirs, — Please discontinue my advertisement, as I have sold out all the stock. The large number of replies I received testifies to the value of your paper as an advertising medium.

Yours,

F. E. PALMER.

It is a pleasure for us to say that the results from our advertising in HORTICULTURE have been eminently satisfactory, not only in the number of inquiries received, but in direct sales as well. We congratulate you upon the strong showing you are making.

Very truly,

THE DINGEE & CONARD CO.

West Grove, Pa.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The evident tendency in the direction of fewer ribbon and other artificial decorations on Easter plants which has been generally noted this year will be pleasing news to all who adequately appreciate a plant for its own sake. This is but the natural rebound from an overdone fad, for such things done to excess never last long. But a further and more creditable reason for the reformation is undoubtedly to be found in the superior productions of our advancing plantsmen, which no longer require flounces to hide their imperfections.

We learn from the New York daily papers that, on account of the death of a number of the large elms on the Mall in Central Park within the last two years and the sickness of many others, a committee of "public-spirited women of the west side has undertaken a fine work of civic patriotism — the saving of trees in the parks." The cause of the dying is represented to be lack of proper nourishment, and the remedy prescribed is a renewal and enrichment of the "thin and exhausted soil" in which the trees are planted. In a column article the *New York Times* of April 9, tells us that Mr. Samuel Parsons, Jr., the city landscape-architect, asserts that unless "drastic methods" are at once instituted, death for the worn-out Mall elms is imminent — said drastic methods to consists of the putting of two feet of new earth over certain parts of the park — and that the 10,000 cubic yards of mold available for the purpose is wholly insufficient. He places the burden of the blame for these deplorable conditions on the park commissioners of many past administrations.

All of the above seems plausible enough until we open the volume of the proceedings of the Park Board of the city of New York for the year 1902, and read from the report of Hon. William R. Willcox, president of the board, and commissioner of parks for the Borough of Manhattan and Richmond, as follows:

"During the summer inspections convinced me that the plantations in the Central Park had been deteriorating for a number of years past, owing to improper treatment, and that many of the trees had become diseased and infected with fungi, owing to neglect in properly covering places where limbs had been sawed off. In order that the matter might be fully investigated and the Department advised intelligently as to the best course to pursue, in September I requested Dr. N. L. Britton, Director of the New York Botanical Gardens; Dr. B. E. Fernow, Director Demonstration Forests of the New York State College of Forestry, Cornell University; Mr. J. A. Pettigrew, Superintendent, Department of Parks, Boston, Mass.; to act with Mr. Samuel Parsons, Jr., the Landscape, Architect of this Department, as a Commission to examine into and report upon the natural conditions in the Park. Messrs. Britton, Fernow, and Pettigrew promptly agreed to serve on such a Commission, and offered their services without compensation to the City, taking the attitude that the preservation of the Central Park was a matter of interest to the whole country."

The report of the special commisson thus constituted was rendered October 13, 1902. It stated, in brief, that adequate tests showed the soil to be deep, of good character, and well-suited for producing fine trees, and that sufficient good soil had been used in the original grading operations. The commission attributed the present condition of the trees in Central Park to "the lack of thinning out," cuts of branches improperly made and left unprotected against infection by fungi which "had obtained access through unprotected pruning scars, causing wide-spread rot in the trunks and branches," and to more or less danger by ice and wind storms. That portion of the report covering the condition of the shrubbery plantations was in a similar vein.

The recommendations of this committee of experts included a thinning out of all surplus, unsuitable and diseased trees; competent pruning and proper protection of cut surfaces, allowing fallen leaves to lie in the woodlands; regular applications of manure and commercial fertilizers to the groves, plantations and lawns; the addition of top-soil in certain limited areas in which the rock comes close to the surface where shrub planting is to be done, and in some of the existing delapidated shrubberies; and the spading in of four inches of manure, mixed with potash, on the Mall. This report is signed by the three members of the Commission and by Mr. Samuel Parsons, Jr. Will Mr. Parsons kindly give the reasons for his changed views and explain how it can be that the lapse of two and a half years has worked such an astounding depreciation in the character of Central Park loam? In asking Mr. Parsons this question we feel sure that we voice the sentiment of a host of friends of the Central Park trees, for Mr. Willcox is quite correct in his observation that anything which concerns the welfare of Central Park is of deep interest to the whole country.

After Adjournment

DISILLUSIONIZED

Of hard-earned coin a fellow now depletes his little hoard
To get the seed to raise some "sass" to grace his humble board;
O'er many a glowing catalogue with care he pores and looks,
Rejoicing in the things that bloom in all the seedsmen's books.

He sees a wood-cut of a beet that dwarfs a full-grown pig,
While on the next page looms a squash some twenty times as big;
At least they such proportions have in his astonished eyes,
But when they're grown, alas, he finds they're but the usual size.

He sees some cuts of peas and beans some pages on displayed
That throw the beanstalk raised by Jack completely in the shade;
But when he harvests later on these monstrous beans and peas,
He finds that quite a little lad can lift a pod with ease.

And so it goes with everything; the while his crops are good
They do not make the neighbors stare as he supposed they would,
And he at length this lesson learns and learns it well, gadzooks!
One must not hope to raise such stuff as grows in seedsmen's books. — *Daily Paper.*

Nonsense! If you're half a man you can grow better stuff. What wood-cut can reproduce the dazzling brilliancy of a peony, the marvellous colors and convolutions of a rose, the fragrance of the daffodil or the perfume of the violet? "Gadzooks," indeed! The seedsman's book 's but a poor thing when one comes to comparing it with Madame Nature's handiwork. Besides one does not raise "garden sass" mainly to make the neighbors stare. Disillusioned one may be, but it does not follow that there's anything wrong with the puny attempt of the seedsman to interest one in the wonders of the universe.

The *Newport Herald's* report of the Easter trade has it that flowers and plants were scarce and high in Newport because the growers had to burn extra coal and that in New York and Boston the reports of a scarcity were heard as well. Sounds funny, doesn't it?

We are duly proud to learn that our prized correspondent, H. H. Battles, of Philadelphia, had been commissioned to prepare an article for the *Ladies' Home Journal* for June. We congratulate Mr. Battles, we congratulate the *Ladies' Home Journal* for its excellent judgment, and of course we congratulate HORTICULTURE which also knows when it has something good.

The *Boston Globe's* "private wire" is working again. This time it introduces an eager public to a man in Passaic, N. J., who has discovered an elixir that will bring a dead plant to life in two weeks. By means of "certain chemicals" a dead geranium plant is "completely regrown and reflowered in two weeks." If this happened anywhere but in New Jersey we should be surprised.

The Connecticut newspapers are telling us that "Professor" Farquahar of Boston will deliver the next address before the New London County Horticultural Society. Our genial friend will, no doubt, look askance at this unsought title. As for us, we'll still call him "Mr." as one who

"Needs not the foreign aid of ornament,
But is when unadorned, adorned the most."

What became of the plants left over from Easter in the retail stores? Don't imagine hey were lost, do you? Why, bless your dear worried soul, the weddings began to reel off almost before sun-up on Monday morning. What finer church adornment than lily plants, astilbes, daisies, and white azaleas against a background of palms? No, the retailers who bought freely and took chances didn't get left; neither should they!

The *Brooklyn Eagle* has compiled a lot of sensational matter and worked it up into a shocking tale of the very poisonous qualities of primroses, oleanders, chrysanthemums, arbor vitæ, clematis, and Crimson Rambler roses, and the danger of handling these things or having them in the house. Incidentally it mentions that there are several poisonous species of rhus, which " are not necessarily dangerous and rarely cause irritation, the exceptions being in persons with a predisposition toward plant poisoning!" They're at it again.

PHINEAS AND HIS FANCIES

Phineas thinks the way to do a thing is to do it. No plow will run of itself. Get busy. The rose men are waking up. Now for the 'mum, the Iris, and the peony.

Be cheerful. No good can be accomplished by running down the other fellow. Metaphysicians can pull down anything; but they never built up a church, a State, or a business. It takes enthusiasm and cheerfulness to accomplish something useful. Witness the S. A. F. and the Carnation Society.

In the school you can get learning, but it takes wisdom to apply it. I would rather have the man who can build me a wheelbarrow than a useless fellow, an adept at the differential calculus. In other words, hand and brain must go together. You can tell a man how to grow a crop of roses, but it isn't every one who understands what he is told.

It is a good thing now and then to buy some of the new things even if it be only to infuse new blood into our own stock. No one knows it all and no one can claim to have the best of everything. The more one comes to realize this, the nearer will one be to knowing the most and having the best. Watch people like Dreer, Dingee & Conard, Ward, Hill, Vaughan, Henderson, and other leaders. They are constantly on the alert and constantly testing and comparing. Would Burpee, Maule, Thorburn, Farquhar, Ferry, and the rest of them be in their present commanding position if they had been con tent with what their fathers taught them? Of course not. The engineer is indispensable but how about the look-out-man?

Carnegie stares at the way the country has grown up. So do the florists. Fifteen years ago we thought one trade paper was enough to cover the field. Now we have four of them, and the latest — HORTICULTURE — is the brightest and best of them all. To keep track of current news and experience we must read them all, but especially HORTICULTURE. Each has some individuality of its own, but for conciseness, distinctiveness, and brilliancy the youngest has them all distanced.

I often wonder at the obtuseness of the grower who does not keep constantly in touch with his commission man as to what he is likely to be able to supply a week ahead. If he could see the orders that are turned down to-day, and hear the commission man's wrath tomorrow (when the growers ship that very thing) it would be an object lesson to the latter he would not soon forget. *

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

W. C. Stickel of Lexington is erecting a new house, 30 × 100. A. T. Stearns Co. of Neponset is furnishing the lumber.

Mr. Henry Penn, our genial Bromfield Street florist has our sympathy in the loss of his father who died Tuesday evening, May 2.

At a meeting of the Music Hall Market Growers, Saturday, April 29, a base ball team was organized with James Rough, Jr., as manager, and Thomas F. Matthews captain. Interest in this sport is gaining a strong foothold and the team can count on the hearty support of the growers as a whole.

The following challenge is issued:

TO THE GROWERS OF PARK STREET FLOWER MARKET, BOSTON: Being duly authorized, we wish to challenge a ball team representing your market to a game or series of games this summer for the championship of the Wholesale Flower Markets of Boston. Time and place of games to be decided later.

JAMES ROUGH, JR., *Manager,*
THOMAS F. MATTHEWS, *Captain.*

Unless we have some copious rains shortly, much irrigating will have to be done this summer. Carnation growers are making all haste to get their young plants out in the field to get the benefit of the small amount of moisture remaining in the ground. The cold, raw winds of the past few days have had an ill effect on young plants already out.

THOS. F. MATTHEWS.

WHOLESOME CHESTNUTS

Plant fruit trees along walls and high fences. Cover tree stumps and other unsightly objects with vines and climbing or rambling roses.

Plant a few trees wherever you can; "they'll be growing when you are sleeping."

Buy only clean trees and if they are not clean when you get them, the chances are they never will be, so send them back.

Keep the hoe going in the seed rows. Next to a warm shower, a stirring of the soil is the best tonic for young plants, or for old ones either.

To guard against mildew on grape vines, dust the pipes with sulphur; dampen the pipes beforehand.

Don't let crotons or dracænas get dry; they ought to be growing rapidly now. Slightly shade crotons with something you can easily rub off, when you want the plants to color.

Plant early celery. Sow sweet corn and string beans. Keep up a succession of radish, lettuce, peas, cauliflower, and spinach.

DRUG STORE COMPETITION

A subscriber writes to us in protest against the practice of his fellow-florists of selling plants and flowers to druggists who sell them at cost to draw trade to their stores and thus lower the standard of value and injure the regular dealers. We doubt if any remedy for this evil is in sight. It is only a repetiton of what florists in every community have had to contend with in one form or another, from the beginning. Our columns are open, however, to any correspondent wishing to make use of them to present his views on this question.

NEWS OF THE CLUBS AND SOCIETIES

TARRYTOWN HORTICULTURAL SOCIETY

The regular monthly meeting of the above society was held on Tuesday evening, April 25. The prize for this month was given for the two best plants of calceolaria. There was quite a keen contest and, after considerable deliberation, the judges awarded the prize to Wm. Scott. Only a short business session was held and the meeting was adjourned to allow the members to attend the lecture given by Professor George T. Powell in the lecture room of the high school. This lecture was held under the auspices of the society, open to the public, and there was a good attendance.

Professor Powell gave a very learned and instructive lecture on the propagation of trees and the cultivation of roses. A number of excellent drawings were used for illustration. On the subject of trees he spoke chiefly on the fruiting kinds, and dwelt mainly on the careful selection of stock, illustrating very clearly the advantage of a healthy parentage by showing the free-growing and free-fruiting qualities of plants taken from such in comparison with plants propagated from unhealthy trees or trees of undesirable habit. In that part of his lecture devoted to roses he gave a lengthy description of soils. Soil of a rather heavy clay nature he considered most suited to their best development. He advised against a very general mistake — that of planting roses too shallow. He advised to plant grafted roses so that the graft would be at least three inches below the surface. In conclusion he gave some advice regarding the destruction of San José scale and strongly advised concerted action in fighting it.

WM. SCOTT, *Cor. Sec'y.*

EXHIBITION AT BOSTON

The exhibition of the Massachusetts Horticultural Society on Saturday, April 29, was notable for a number of features, especially the calceolarias and show pelargoniums which were unprecedentedly fine. They were shown by George Stuart, gardener to George F. Fabyan — the same grower whose cyclamens made such a sensation among the visitors to the spring show in March. Professor A. J. Pieters, of the Department of Agriculture, Washington, was present as a visitor and was particularly impressed with these superb calceolarias. A plant of Impatiens Holstii from Robert Cameron, Botanic Garden, Cambridge, created a genuine sensation not alone because of its fine color and free-flowering, but from the fact that it was raised from seed sowed early in January. Its possibilities as an Easter plant impressed all. A new cucumber, Metcalf's Model, by C. H. Metcalf, was freely commented on as the best cucumber ever seen in any exhibition here; dark green in color and perfect form. The profuse display of daffodils usually seen at this exhibition was not in evidence. The season is too backward and daffodils are only commencing to bloom. Certificates of merit were awarded to Robert Marshall, gardener to E. W. Converse, for superior cultivation of Amaryllis vittata, Thomas T. Watt, gardener for Mrs. H. F. Durant, for superior cultivation of Saccolabium ampulaceum and Robert Cameron for Impatiens Holstii.

AMERICAN ASSOCIATION OF NURSERYMEN

Program for Thirtieth Annual Meeting to be held at West Baden Springs, Ind., June 14, 15, 16, 1905.

WEDNESDAY MORNING, JUNE 14, 10 O'CLOCK.

Calling to order, President W. W. Kirkpatrick; Texas.
Welcome to Indiana, Andrew J. Rhodes, Indiana.
Response for the Association by the President.
President's Address.
Reports of Secretary and Treasurer.
Reports of Committees on Tariff, Legislation, Freight Classification and Transportation.
Discussion by G. L. Taber, Florida, and members.
"The Cost of a Tree," Harry L. Bird, Michigan.
Discussion by Aubrey Frink, Florida; J. Horace McFarland, Pennsylvania; Herbert S. Chase, Alabama, and members.
Nomination of State Vice-Presidents.

WEDNESDAY AFTERNOON, 2 O'CLOCK

Election of State Vice-Presidents.
"Grading Nursery Stock," L. A. Berckmans, Georgia.
Discussion.
"The Low Prices of Ornamental Stock," Charles Maloy, New York.
Discussion.
"The Grape, the Commercially Neglected Fruit," T. V. Munson, Texas.
Discussion.
"Experimental Orchards for Nurserymen," L. C. Corbett, U. S. Department of Agriculture.
Discussion.

WEDNESDAY EVENING, 7.45 O'CLOCK.

"A Tree Garden to Last a Thousand Years" (stereopticon), J. Horace McFarland, Pennsylvania.
Discussion by J. Woodward Manning, Massachusetts, and members.
"Soil Inoculation" (stereopticon), Dr. George T. Moore, U. S. Department of Agriculture.
Discussion by J. H. Hale, Connecticut.
QUESTION BOX. — Questions will be received by the Secretary or the Chairman of the Program Committee until Thursday P.M. and will be answered on Friday.

THURSDAY MORNING, JUNE 15, 9.30 O'CLOCK.

"The New Horticulture," H. W. Stringfellow, Texas.
"Best Methods of Improving Our Standards in Trees, Fruits," G. L. Taber, Florida.
Discussion by Members and W. O. Reed, Indiana.
"Quality *v.* Quantity," Prof. John Craig, New York.
Discussion.
"Plants in Department Stores," Howard A. Chase, Pennsylvania.
Discussion.

THURSDAY AFTERNOON, 2 O'CLOCK.

"Office Management," Thomas B. Meehan, Pennsylvania.
Discussion by Charles J. Brown and William Pitkin, New York.
"The Fruit Exhibit at the World's Fair," William B. Stark, Missouri.
Discussion by J. S. Butterfield, Missouri, and members.
Annual Meetings of the American Nurserymen's Protective Association and the Nurserymen's Mutual Protective Association.

THURSDAY EVENING, 7.45 O'CLOCK.

Executive Session. Members Only Admitted.
"Picking, Packing, Grading, and Shipping Fruit" (stereopticon), J. H. Hale, Connecticut.
Discussion.
"Crown Gall and Root Knot" (stereopticon) George G. Hedgcock, U. S. Department of Agriculture.
Discussion by C. L. Watrous, Iowa; J. H. Hale, Connecticut, and members.

FRIDAY MORNING, JUNE 16, 9 O'CLOCK.

Election of Officers.
Selection of place for next Convention.
Appointment of Committee on Resolutions.
New business.
"Refrigeration of Nursery Stock and Storage in Cellars," Madison Cooper, New York.
Discussion.
"Excluding Advertisements Quoting Prices," J. M. Irvine, Missouri.
Discussion by Theodore Smith, New York.

FRIDAY AFTERNOON, 2 O'CLOCK.

"The Evolution of Importing," James McHutchison, New York.
Discussion by Hiram T. Jones, New Jersey; Andre L. Casusse, New York; F. L. Atkins, New Jersey.
Answers to Questions deposited in Question Box.
Reports of Committees on Exhibits, on Final Resolutions, on Program; and Announcement of Committees.
Adjournment.

FRIDAY EVENING, 7 O'CLOCK.

Fruit Banquet. — J. H. Hale, Toastmaster. There will be dancing after the banquet.

SATURDAY, JUNE 17.

Special Excursion to Mammoth Cave, Kentucky.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

Members of the Gardeners' and Florists' Club of Boston to the number of forty-five, visited, on invitation, the extensive flowerpot manufactory of A. H. Hews & Co., at North Cambridge, on Saturday, April 29. They were escorted through the different departments and shown the interesting processes whereby crude clay is transformed by the potter's art into the various forms and sizes of pottery ware. The most modern machinery and skilled labor are the foundation of the world-renowned goods turned out by this mammoth establishment which is now over one hundred and forty years in existence. The Hews pottery was established some time prior to 1765 in the town of Weston, and ever since has been carried on by some member of the family until its late incorporation. Mr. A. H. Hews whose death occurred in July, 1903, was of the fourth generation from the founder of the pottery. He is held in loving memory by the employees, and the same spirit of genial courtesy which the visitor met when he was the directing genius of the establishment is still characteristic of the place and the gentlemen who represent it at home and on the road. A generous collation was served to the Boston party by the ladies of the office, and in closing the delightful occasion, a hearty vote of thanks and three cheers for their hosts were given by the visitors.

NEWPORT HORTICULTURAL SOCIETY

Mr. Alfred G. Vanderbilt has manifested his interest in the coming exhibitions of the Newport Horticultural Society by offering a special prize of $25 to be competed for in August. Miss Alice Keteltas writes from New York to the effect that the cup she is to offer as a first prize for a gateway decoration at the June exhibition is at Tiffany's awaiting the inscription. Mr. F. P. Garrettson writes saying he will gladly give a prize for anything suggested by the society.

HORTICULTURAL SOCIETY OF NEW YORK

The fifth annual exhibition of this society will be held in the Museum Building of New York Botanical Garden at Bronx Park on Wednesday and Thursday, May 10 and 11. A list of prizes offered by the managers of the Botanical Garden has been published and may be had on application to Leonard Barron, 306 West 149 street, New York City.

Our Frontispiece shows the interior of one of Julius Roehrs Company's phalænopsis houses at Rutherford, N. J. The view was taken early this year. In sight are P. amabilis, amabilis Rimestadiana, Schilleriana, etc. To say that it is a beautiful show is "putting it mildly."

Obituary

JAMES ROUGH

It comes to us as a very sad duty to record the death of James Rough, of Boston, who



died on Tuesday night, May 2, after a ten days' sickness with pneumonia. Good and kind-hearted, jovial and companionable, Mr. Rough was held in loving esteem by a host of friends of many years and deepest sorrow prevades the community where he has so long been active in the business and social life of the craft.

Mr. Rough was born in the suburbs of Glasgow, Scotland, 57 years ago. At the age of 25, he came to the United States and entered the employ of Mrs. John L. Gardner, under the late C. M. Atkinson who was then head gardener of the estate. He stayed there about a year, and then entered the store of the late Alexander Greenlaw, florist, on Washington street, Boston. After five years service at this stand he went into business for himself, establishing a store on Washington street, near West Newton, where he remained until four years ago when he moved to the corner of Huntington and Massachusetts avenues. Mr. Rough was a great lover of animals and had at the time of his death, some fine dogs, pigeons, and golden pheasants. He leaves to mourn his loss, two daughters, Misses Mary and Nellie, and one son, James, who is manager of the Music Hall Cut-Flower Market.

FRANK A. PIERSON

Frank A. Pierson died at his home in Cromwell, Conn., Saturday evening, April 29, after one week's illness. He was taken suddenly ill on Saturday evening, April 22, and on Sunday his case was diagnosed as spinal meningitis, and he gradually failed until he passed away.

Mr. Pierson was 28 years of age, and was born in Cromwell, the son of A. N. Pierson. From a boy he took an active interest in his father's business.

Mr. Pierson had served as selectman of the town of Cromwell, and last fall was elected as a member of the General Assembly by the Republicans.

He was of jovial disposition, popular with all classes, and his sudden death will be generally regretted by many social friends as well as by those in the profession, which he honored and which has sustained an irreparable loss in his death. He leaves a wife and one child.

HENRY H. GOODELL

President Henry H. Goodell of the Massachusetts Agricultural College died suddenly April 23, while on his way home from Florida,



where he had been for his health the past winter.

As a member of the Massachusetts State Board of Agriculture he has done much for the horticultural and agricultural interests of the country. He was director of the Hatch Experiment Station, and president of the Massachusetts Agricultural College since 1886.

In the latter capacity he has done much to further the interests of the college, particularly during the past few years when the success of the institution depending on its agricultural basis, he developed and strengthened this foundation. He was especially interested in the horticultural side of the work and the founding of the landscape-gardening branch was due to his efforts.

Especially noticeable was his desire to furnish opportunities for young women to study horticulture, agriculture, and allied subjects. Not only did he exert his influence towards providing special courses for them at M. A. C., but also worked hard to arrange for coöperative work between that institution and Simmons College of Boston.

Never forcing himself prominently into public view, he accomplished a great deal in his modest, unassuming way.

THOMAS CAPERS

Thomas Capers, florist, of Newburyport Mass., died on April 29, at the Anna Jaques hospital where he had been operated on a few days previous. Mr. Capers' age was 67 years. He was a native of England and while a young man came to this country. He has been in Newburyport for thirty years. He was a man of sterling character, quiet and unassuming in manner, and held in high regard. He leaves a wife and one son.

WARREN FENNO

Warren Fenno, well-known among Boston horticulturists as a fruit expert, died at his home in Revere, Mass., on April 28, aged 50 years. He was a constant exhibitor at the Massachusetts Horticultural Society's shows and served for many years on the judging committees.

HENRY GREBE

Henry Grebe, Jamaica, N. Y., died by his own hand on April 21, while temporarily insane. He leaves a widow and two children.

News Notes

The William W. Edgar Company, Waverly, Mass., has been incorporated, with capital $25,000.

The greenhouse of Alfred Dobbertin, Rochester, N. Y., was almost completely destroyed by fire one morning last week.

William J. Doogue, son of the city forester of Boston, was married on May 1, to Miss Anna M. Duggan, at Hartford, Conn.

Forty dollars worth of plants and flowers were stolen from the greenhouses of Kuhnert & Son, at Hackensack, N. J., two nights before Easter.

J. W. Philbrick has purchased the florist business of Mrs. J. M. Julyn and will continue at the same locality, 56 Bridge street, Salem, Mass.

The City Parks Association has sent a letter to householders in the central portion of Philadelphia, urging them to put boxes of flowers in their front first floor windows, and expressing the hope that local improvement associations will foster the idea.

William A. Black, who has been with H. A. Merrill at his Royal Palm Hotel, Miami, Fla., during the winter, has come north to take charge of the grounds at Shadow Brook, Lenox, Mass., which Mr. Merrill has leased and will run for a summer hotel.

The Fleischman Floral Company has taken a long lease of No. 516 Fifth avenue, New York, a four story and basement dwelling on lot 29×125, at the northwest corner of Forty-third street. Extensive alterations will be made and the lessees will occupy the premises as a floral establishment. This will make five first-class establishments in that immediate neighborhood.

A QUESTION OF GRAPE CULTURE

I have read with interest several very interesting articles on grape culture under glass, and I should be very thankful if I could get some advice through your paper in my trouble with our grapes this year.

They don't set fruit and some of the growth, especially on the upper part of the rods looks yellowish and sickly. There is some good strong growth started at the base of the rods. The roots are outside but over them is a frame built in which we grow violets." The vines have been bearing about five years, but the soil was renewed two years ago in the violet frame, using good compost and 100 per cent of bone meal. The house is fifty feet long.

We have never had extra large bunches of grapes, but have always had a fair crop; last year it was very good.

I am much afraid that the violet frame which is heated in winter to about 45 degrees, is much to blame for the trouble as the roots are not kept as cold as the top is.

Last year I started this house the fifth of February and this year three weeks earlier. The temperature has been kept even as we use Power's regulator.

I shall appreciate any information I may get, as I am at a loss to know the exact course of the barrenness and how to remedy the same.

J. M. Roman.

Outdoor Art and Craft

The hyacinths in the Boston Public Gardens have been beautiful during the past two weeks, and have attracted throngs of admirers.

Paul A. Andrews has cabled from Paris his resignation from the Park Commission of Newport, R. I., on account of his absence and consequent inability to attend to the duties.

The disastrous effects of the severe winter and so far extremely fickle spring on the coniferous plantations in Newport are now plainly visible; on one estate alone there are fifty good sized trees dead or so nearly dead as to be useless, and on several other estates there are nearly as many in pretty much the same condition — bad for the trees and bad for the owners, but good for others.

The old fashioned "wake robin" (Trillium grandiflorum) is now blooming in the woods. If more people realized the ease with which this popular spring favorite can be transplanted, it is safe to say that the woods would soon loose many of their spring ornaments. Mark the clump when in bloom and then during the following August or September, lift the tubers and transplant them to the border, selecting a shady corner where the soil is deep and rich. It is important to mark them carefully when in flower as the tops die down as soon as the teubers have ripened, which is about midsummer.

The shade tree law of New Jersey is permissive in character and its adoption is optional with the cities of the State. In all probability several cities will take prompt advantage of it and have commissions appointed as has been already done by Newark. On the adoption of the law by the governing body of a city it then becomes the duty of the mayor to appoint three commissioners to serve without salary for five-year terms. The commissioners, after notice in the newspapers, can plant trees on any street or section of a street, the cost of the trees and boxes to be assessed on the property, and the maintenance and other expenses to be provided for by an item in the tax levy, which shall not exceed one-tenth of one mill on the dollar of ratable property.

ARBOR DAY

There is nothing finer in the whole world than a healthy tree. A tree is beautiful, of itself, by reason of its colors and lines, and still more beautiful, like a mountain or a lake, by reason of the decorative effect it produces in a landscape.

The beauty of flowers and fruits is no less, perhaps, than that of trees, but these objects are relatively ephemeral. Hence we admire violets and strawberries in general, as violets and strawberries, but we admire and even love individual trees as we do individual lakes and mountains. The trees we know outlast several generations of our animal pets and they often outlast ourselves. We are grateful to certain trees for the shade or the fruit or the nuts they have provided and for the shelter they have afforded to the bluebirds, orioles, and robins we were interested in. And we are passionately fond of certain others because they served us as play-houses when we were children, and as trysting-places when we were lovers, and are now serving as playhouses again for our children or our children's children; because, in a word, they are associated in our memories with the tenderest and happiest moments of ur existence.

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An Elegant Lot of Plants
Suitable for furnishing vases, etc.

4-inch Pots	. . . .	$2.00 per dozen	. . $15.00 per 100
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7-inch " heavy	. .	6.00 "	. . 50.00 "
8-inch " "	. .	9.00 "	. . 75.00 "
11-inch Pails, 3 feet high, fine plants		. . . .	2.00 each.

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There never was a finer festival than that which has resulted from the general adoption of a tree-planting day. The great lesson of Arbor Day is the moral beauty of civic devotion. It teaches that there is something more effective than money in improving the conditions of community life, namely, public spirit; that the humblest citizen and even the future citizen — even the child — may render as valuable public service as the nabob.

Plant a tree to-day each and every one of you; plant a tree figuratively, if you can't do it literally.

Do something to-day to prove that you are willing to put the same kind of thought and effort into the affairs of the local body-politic you put into your own.

Do something to-day to make your village, town or city a better place to live in. — *Boston Traveler.*

THE GIPSY MOTH

It seems somewhat surpsising that there should be so much popular ignorance of a series of events happening as near home as the recent gypsy moth history. It was more surprising to read in the *Transcript* of Saturday, misrepresentations of Massachusetts's work and gratuitous advice sent all the way from California, as is seen in the sentence: "California's message to Massachusetts is to stop wasting money in wrong processes for the destruction of the gypsy moth, and to get out and find the necessary reducer in the native place of the pest."

Now this is, in brief, the story of the case: The pest was found in a clearly defined, limited territory. The State appropriated money for the suppression. The work progressed from the outside of the infested district inward. Each year a certain amount of territory was cleaned up, and the lines were gradually drawn in more and more. The work was done under the direction and advice of one of the most competent economic entomologists in the country, and it had the unanimous approval of the national association of economic entomologists, including the national entomological division at Washington. The work progressed successfully until extermination was nearly in sight — suppression was certainly well in hand — when the Legislature with almost criminal shortsightedness stopped the appropriation. The pest was then unrestrained, and it increased and multiplied till all the work of extermination or suppression was undone, and the condition now is much worse than before the State commenced the work.

The money spent by the State was wasted, as is charged by the article quoted, but not by reason of "wrong processes." It was wasted because the work was stopped; because the conflagration which had been under control was given opportunity to spread and increase again.

This California writer, ignorant of what Massachusetts has done, says that "California would secure from nature an agent to destroy the destroyer."

Massachusetts has studied the parasite matter carefully, and the results may be found in pages 267–288 of the book on the gypsy moth, published in 1896.

There should be investigation of all methods that promise to help remove the terrible pest we have among us. All friends of outdoor life, of agriculture, of commercial forestry, should urge forward any investigation of improved methods of controlling this calamity. But those who have an interest in this good work of only a few months' duration, especially those situated clear across the continent, should not overlook the efficient work that has been done in the past. The fireman in combating a conflagration does what he can with the best machinery he has at hand. The chief does not order the steamers and ladders back to their houses because someone tells him that a more efficient means of extinguishing fire may exist in Europe. — GEORGE M. WHITAKER, in *Boston Transcript.*

NEWPORT

Newport at the present time is three-fourths horticulture and the other fourth about equally divided between upholstering and paint. The gardeners are as busy as nailers getting things in shape for early arrivals; early arrivals count for a good deal here and there will be more of them this year than usual. Rhododendrons are fashionable, therefore, on the quarter-acre place and the twenty-acre estate rhododendrons predominate.

Several florists who leave Newport in the winter have been here this week putting their places in shape; coming from the centers of society and business, their predictions for a gay and profitable season are credited with pleasure. Many new families have either bought or rented Newport villas; already these new comers are the magnets who possess irresistible attractions forthe florist. Many of the places they will occupy are small in area, with few facilities for supplying anything like enough flowers. Needless to say the flower men step in and fill their wants.

SOWING ROSE SEED

HORTICULTURE PUBLISHING CO.:

Would you kindly inform me how to plant rose seed? I have tried different courses but all unsuccessful.

Thanking you in advance for kindly information.

Yours truly,
A. MILLER.

Select a good mellow loam, add about one-quarter cow manure, and sift so that there may be no coarse lumps or stones. Eight-inch pans, such as may be obtained in any seed store, make very handy receptacles. Drain well with broken flower pots, put in two inches of the prepared soil, firm slightly, place in the seed and cover with a half inch of soil. Water lightly and put in a cool place, under fifty degrees, for two months. When brought into a temperature of sixty degrees at the end of this time all the fertile seeds will generally germinate in from one to three months.

Probably your expectations are too high, and you look for all your seeds to sprout. Good authorities give twenty-five per cent as the amount which, in general, can be relied on to germinate. Of course there are exceptions to this, notably Caroline Testout, which often produces over ninety per cent of fertile seeds. The selection of a good seed bearer has a great deal to do with the successful germination of rose seeds. No doubt several of the noted foreign hybridists could give us valuable hints on this particular point; but as they seem to prefer to keep the results of their investigations to themselves (and I cannot say that I blame them for it), it is up to us to experiment on our own account and not try to reap, without effort on our part, the results of the life-long works of others.

Allow me to suggest, however, that most of the trouble in raising rose seedlings comes from a too earnest desire on the part of the enthusiast to see the result of his cross and a consequent sowing of the seed long before it is thoroughly ripened. Do not make this mistake then.

Try leaving the hips on until the stems begin to shrivel and the hips are about to fall off the plant. It may take anywhere from six to twelve months, but at any rate, a thoroughly ripened seed is one of the secrets of success.

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2½-inch Pots
$3.00 ..... per 100
$25.00 ..... per 1000

VIOLETS
3000 fine Clumps
Lady Campbell
$5.00 ..... per 100
$45.00 ..... per 1000

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Roses and Carnations A Specialty.....
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Cineraria Michell's Grandiflora Prize
The finest strain procurable; produces immense trusses of the largest flowers.

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Dwarf Mixed	$ .60	$1.00
Medium Tall Mixed	.60	1.00

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Dear Sirs:—The Cineraria seed I procured from you gave the best results of any I ever used; your catalogue description does not do them justice. Sincerely yours,
HARRY OBERT, Florist,
June 28th, 1904. Pleasantville, N. J.

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We have the choicest strain from a **Leading Primula Specialist**; large flowers, beautifully **fringed.**

	½ trade pkt.	Trade pkt.
Alba Magnifica, White	$ .60	$1.00
Holborn Blue	.60	1.00
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Plants finely shaped, and evenly variegated. Extra good value.

Begonia Gloire de Lorraine
Strong plants, 3-inch Pots
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" No. 1	12.50 to 18.00	12.50 to 15.00	12.50 to 15.00	4.00 to 8.00
" Lower grades	4.00 to 10.00	4.00 to 10.00	6.00 to 8.00	1.00 to 2.00
Bride & Maid — Fan. & Sp.	6.00 to 8.00	..... to	8.00 to 10.00	5.00 to 6.00
" " Extra	5.00 to 6.00	..... to 6.00	6.00 to 8.00	4.00 to 5.00
" " No. 1 and Lower gr.	1.00 to 4.00	..... to 4.00	2.00 to 6.00	1.00 to 3.00
Liberty, Fancy & Special	8.00 to 10.00	..... to	18.00 to 20.00	10.00 to 12.00
" extra	6.00 to 8.00	..... to 6.00	15.00 to 18.00	8.00 to 10.00
" No. 1	4.00 to 5.00	..... to 4.00	10.00 to 12.50	4.00 to 6.00
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Golden Gate, Ivory, Chatenay — Best	6.00 to 8.00	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00
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CUT-FLOWER MARKET REPORTS

BOSTON Business has been very dull here since Easter, and with the great abundance of all kinds of material coming in the street fakirs have been pretty much in control of the prices. The result is that low rates prevail, and values are maintained only on rare things that are required for special occasions. Some of the retail stores are having considerable to do in the line of weddings. All are making generous displays in their windows, as they can easily do at present prices.

BUFFALO The beginning of the week's business was quite brisk with the retailers, and stock cleaned up fairly well. Carnations were not so plentiful on Monday and Tuesday, but a couple of sunshiny days brought stock in faster than could be disposed of, roses being the most plentiful and the 5 cent signs were soon noticed amongst the retailers. Beauties held firm for a few days only, then dropping in price and were hard to move at quoted prices. Lilies are over plentiful and are not selling; no demand since Easter.

Violets are still seen and are good, considering, but not moving fast.

CHICAGO A great strike is now on in full headway in Chicago which already has produced shocking scenes of riot and bloodshed. The great wholesale cut-flower market lies in the heart of the trouble-brewing district. On April 27, the teamsters strike spread to all express companies and no calls or deliveries were made by the various companies. On this day several shipments were moved under police protection. A meeting of the wholesale florists was called at the office of the Benthey, Coatsworth Co., at which every firm was represented and a committee of six were appointed to confer with the strike leaders. Fred. Lautenschlager was appointed to arrange for the immediate delivery of all cut-flower shipments, and as director of this industry has thus far, succeeded in moving every cut-flower shipment in Chicago on schedule time, handling hundreds of boxes daily for from fifteen to twenty firms. All incoming goods have been declared contraband by the strikers and as yet no plan has developed for the delivery of incoming consignments. Long distance consignments have been ordered to other markets.

As usual with the passing of Easter, the trend has been toward lower values and only on American Beauties, select and medium grades, have sellers been able to exact quoted values.

Bride and Bridesmaid are in over supply and declined values. Lilies are now being offered in immense quantities. Carnation receipts have been heavy. Fancy grades found a good demand, but poor kinds were hardly salable. Violets have come to an end. Bulbous stock continues in large supply; however, fancy tulips are in light offerings. Narcissus Emperor is holding a good demand, also lilac and sweet peas. Some choice cut stock is offered of campanulas, heucheras, irises, and pæonies. Gladioli and orchids can be had for variety. Green goods are in ample supply.

The grand red Gladiolus Princeps are offered by Zech and Mann; McKellar has Cattleya Skinneri; Caldwell the Woodsman's new decorative green "huckleberry tree branches" at Kennicott Bros., and some choice seedlings of Gladiolus Covillii alba at Deamud's are the novelties in sight this week.

INDIANAPOLIS It was the best Easter we have ever had. All high grade stock both in plants and cut flowers sold easily at good prices. The ten days preceeding Easter being cool, kept bulbous stock and plants in nice condition, but was rather unsatisfactory for cut-flower growers. The plant trade was as usual enormous and over shadowed everything else. Lilies topped the list, with azaleas and Ramblers second. As for new features it cannot be said there was anything especially novel either in plants or made-up baskets. The stores all made special window displays and were well repaid for their trouble. Embellishments on plants and ribbon were very little in evidence this year.

NEW YORK Business is reported by the growers and wholesalers as fair, and by the retail stores as good and in some cases as very good. The demand since Easter has been better than anticipated when the lateness of the date is taken into consideration. An abundance of flowers of all seasonable kinds affords the retailers a good opportunity to use stock freely at moderate prices. White flowers in the extra choice lines are enjoying a lively demand for wedding orders.

PHILADELPHIA The week after Easter was satisfactory as to business done considering the large amount of stock. Roses and carnations were both too plentiful; cut lilies and daffodils were also redundant. Orchids very scarce. Lily of the valley was fairly plentiful, but the demand for after-Easter weddings was very large and a good many orders could not be satisfactorily filled. Gardenias sold fairly well and were in good supply.

WASHINGTON A very satisfactory Easter business. Prices were not so high as last year, but the great quantities disposed of will more than offset this.

The weather was well-suited to the delivery of plants, and growers of small and medium priced stock found an unprecedented demand. Cut flowers were extensively asked for and few were to be had Sunday morning; prices ruled about the same as last year roses being the leaders. Carnations sold well in spite of the fact that great quantities were on hand.

Florists Out of Town

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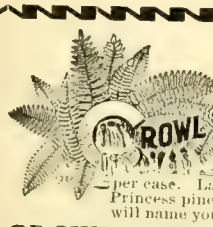
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Wholesale Growers of

CUT FLOWERS

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FANCY OR DAGGER FERNS



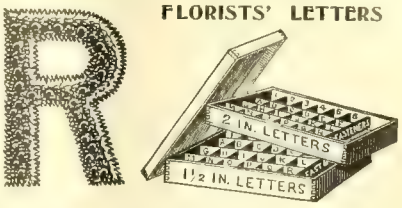
FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. **Send us your orders at once** and we will please you. Branch Laurel, 35c. per large bundle. Southern wild Smilax, 50-lb. cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

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Consignments received, sold well and returns made promptly.
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
Telephones { 2200 / 2001 } Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending April 29 1905	First Half of Week beginning May 1 1905
ROSES		
Am. Beauty, fan. and sp	10.00 to 16.00	12.00 to 25.00
" extra	6.00 to 10.00	8.00 to 15.00
" No. 1	2.00 to 5.00	3.00 to 6.00
" Lower grades	1.00 to 6.00	1.00 to 2.00
Bride & Maid, fan. and sp	4.00 to 6.00	4.00 to 8.00
" " extra	3.00 to 4.00	3.00 to 4.00
" " No. 1 and Lower gr.	1.00 to 2.50	.50 to 2.50
Liberty, fan. and sp.	10.00 to 12.00	10.50 to 15.00
" extra	4.00 to 6.00	5.00 to 8.00
" No. 1	2.00 to 3.00	2.00 to 3.00
Meteor	2.00 to 12.00	1.00 to 12.00
Jacq	2.00 to 15.00	2.00 to 20.00
Brunner	2.00 to 25.00	2.00 to 25.00
Carnot and Kaiserin	1.00 to 5.00	1.00 to 5.00
Golden Gate, Ivory, Chatenay — Best	5.00 to 6.00	6.00 to 8.00
Golden Gate, Ivory, Chatenay — Medium	2.00 to 4.00	2.00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	.75 to 1.00	.75 to 1.00
CARNATIONS		
Fancy Class	2.00 to 3.00	2.00 to 4.00
General Class	1.00 to 2.00	1.00 to 2.00
ORCHIDS		
Cattleyas	60.00 to 100.00	60.00 to 100.00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	3.00 to 5.00	2.00 to 5.00
Lily of the Valley	2.00 to 5.00	1.00 to 4.00
Stocks	..... to	..... to .....
Daffodils	..... to	..... to .....
Tulips	1.00 to 3.00	1.00 to 2.00
Callas	4.00 to 8.00	4.00 to 5.00
MISCELLANEOUS		
Mignonette	.50 to 2.00	.50 to 3.00
Sweet Peas	.50 to 1.00	.50 to 1.00
Adiantum Cuneatum	.75 to 1.00	.75 to 1.00
" Croweanum	1.50 to 2.00	1.50 to 2.00
" Farleyense	10.00 to 15.00	10.00 to 15.00
Smilax	12.00 to 20.00	12.00 to 20.00
Asparagus Plumosus, strings	..... to	25.00 to 50.00
" " bunches	..... to	15.00 to 50.00
" Sprengeri "	..... to	12.00 to 25.00
Gardenias	5.00 to 25.00	5.00 to 25.00
Lilac, per bunch	.25 to 1.00	.20 to .75

WEILAND & RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation
"Victory"
To be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Fine White and Yellow Daisies a Specialty
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
Traendly & Schenck
44 West 28th St. New York City
Telephones, 798-799 Madison Square
In writing to advertisers, mention HORTICULTURE

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI April 23	BALTIMORE April 3	BUFFALO May 3	PITTSBURG
ROSES				
Am. Beauty, fan. and sp.	..... to 45.00	25.00 to 35.00	20.00 to 25.00	..... to .....
" extra	35.00 to 40.00	15.00 to 20.00	12.00 to 20.00	..... to .....
" No. 1	15.00 to 25.00	10.00 to 12.50	5.00 to 12.00	..... to .....
" Lower grades	6.00 to 10.00	3.00 to 6.00	3.00 to 5.00	..... to .....
Bride & 'Maid, fan and sp.	..... to 10.00	..... to	8.00 to 10.00	..... to .....
" " extra	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00	..... to .....
" " No. 1 and Lower gr.	..... to 5.00	..... to 6.00	3.00 to 6.00	..... to .....
Liberty, fan. and sp.	..... to 10.00	..... to	8.00 to 12.00	..... to .....
" extra	..... to	..... to	6.00 to 8.00	..... to .....
" No. 1	..... to	..... to	5.00 to 6.00	..... to .....
Meteor	..... to	..... to	3.00 to 6.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	5.00 to 15.00	..... to .....
Carnot and Kaiserin	..... to	8.00 to 10.00	4.00 to 10.00	..... to .....
Golden Gate } Best	..... to 8.00	6.00 to 7.00	5.00 to 6.00	..... to .....
Ivory } Medium	..... to 6.00	4.00 to 5.00	4.00 to 5.00	..... to .....
Chatenay } Culls	..... to 4.00	..... to	2.00 to 4.00	..... to .....
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 6.00	2.00 to 2.50	3.00 to 4.00	..... to .....
General Class	4.00 to 5.00	1.50 to 2.00	1.50 to 2.00	..... to .....
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	12.50 to 15.00	6.00 to 12.50	6.00 to 10.00	... to
Lily of the Valley	..... to 4.00	3.00 to 4.00	2.00 to 4.00	to .....
Stocks	..... to	1.50 to 2.50	..... to	..... to .....
Daffodils	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	to .....
Tulips	2.00 to 3.00	.25 to 1.00	2.00 to 3.00	..... to
Callas	..... to	.50 to 1.50	6.00 to 10.00	..... to .
MISCELLANEOUS				
Mignonette	..... to	2.00 to 3.00	2.00 to 3.00	..... to .....
Sweet Peas	1.00 to 1.50	.50 to .75	.40 to .75	..... to
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	..... to ...
" Croweanum	..... to	..... to	..... to 1.50	..... to .
" Farleyense	..... to	..... to	10.00 to 12.00	..... to
Smilax	12.50 to 15.00	15.00 to 20.00	15.00 to 20.00	to
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	50.00 to	to
" " bunches	..... to 35.00	..... to	25.00 to 50.00	to
" Sprengeri "	25.00 to 35.00	..... to	25.00 to 50.00	to
Gardenias	..... to	..... to	..... to	..... to
Lilac, bunches	..... to	..... to	.75 to	to .....

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Buyers' Directory and Ready Reference Guide

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BULB FLOWERS.

W. H. Siebrecht, Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

CALIFORNIA PRIVET.

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Variegated Lawson, White Lawson, Daheim, Fiancee
Cardinal, Fred Burki, and Victory

Des Plaines Floral Co., Des Plaines, Ill.

Fiancee, the Cardinal, Fred Burki, $12 per 100; $100 per 1000. S. S. Skidelsky, 824 N. 24th St., Phil., Pa.

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J. M. Thorburn & Co., New York.
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Vaughan's Seed Store, Chicago and New York,
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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Geo. Sanderson & Sons, Weston, Mass.
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100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100, $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

PATENTS.
E. G. Siggers, Washington, D. C.
For page see List of Advertisers

PLANTS DECORATIVE.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

POINSETTIAS.
Thorn Hedge Greenhouses, Newtown Sq., Pa.
For page see List of Advertisers.

POTATOES.
Schlegel & Fottler, 26 S. Market St., Boston.

PUTTY.
Hammond Paint & Slug Shot Wks. Co., Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

RETAIL FLORISTS.
Alex. McConnell, New York.
For page see List of Advertisers.
Thomas Young, Jr., New York.
For page see List of Advertisers.

RHODODENDRONS.
Riverside Nursery Co., Confluence, Pa
For page see List of Advertisers.

ROSES.
R. & J. Farquhar, 6 & 7 S. Market St., Boston.
Hardy Roses.
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M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.
New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., New York.
English-Grown Roses.
For page see List of Advertisers.
Rose Killarney. Siebrecht & Son, New Rochelle, N. Y
For page see List of Advertisers.
Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
For page see List of Advertisers.
C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.
Palisades Nurseries, Sparkill, N. Y.
Crimson Rambler Roses.
For page see List of Advertisers.
John N. May, Summit, N. J.
For page see List of Advertisers.
Eastern Nurseries, Jamaica Plain, Mass.
Hardy Roses.
For page see List of Advertisers.
H. P. Kelsey, Beacon Building, Boston.
Hardy Roses.
For page see List of Advertisers.
J. Breitmeyers' Sons, Detroit, Mich.
Rose La Detroit.

SCOTT FERN.
John Scott, Keap St. Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.
W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers
Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.
Arthur T. Boddington, 342 W. 14th St., New York
For page see List of Advertisers.
Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
For page see List of Advertisers.
W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

SEEDS, Continued.
J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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H. F. Michell Co., 1018 Market St., Philadelphia.
Cineraria and Primula Seeds.
For page see List of Advertisers.
Schlegel & Fottler Co.,
26 S. Market St., Boston.
For page see List of Advertisers.
Conrad Appel, Darmstadt, Germany. Estab. 1789
High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.
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SNAP DRAGON.
J. Breitmeyer's Sons, Detroit, Mich.

STEAM TRAP.
E. Hippard, Youngstown, O.
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STERILIZED SHEEP MANURE.
W. Elliott & Sons, New York.
For page see List of Advertisers.

VENTILATING APPARATUS.
Hitchings & Co., 233 Mercer St., New York.
See outside cover page.
Pierson-Sefton Co., West Side Av., Jersey City, N. J
See outside cover page.
Lord & Burnham Co., Irvington-on-Hudson, N. Y.
See outside cover page.
The Chicago Lifter.
J. C. Moninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.

Boston.

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N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 84 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 383–87 Ellicott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Peter Reinberg, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Av., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.

New York.

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J. K. Allen, 106 W. 28th St., New York.
Bonnot Bros., 55–57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
James Hart, 117 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York.
Moltz, 55–57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Chas. Smith, 55–57 West 26th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.
John Young, 51 West 28th St., New York.
Young & Nugent, 42 West 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Fred Ehret, 1403 Fairmount Ave., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612–18 Ludlow St., Philadelphia, Pa.
Phila. Cut FlowerCo., 1516–18 Sansom St., Phila., Pa.
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
Pittsbug Florist Ex., 228 Diamond St., Pittsburg, Pa.

New Offers in This Issue

ASTER KATE LOCK.
J. H. Lock, Toronto, Can.
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BEGONIA GLOIRE DE LORRAINE.
J. A. Peterson, McHenry Ave., Cincinnati, O.
For page see List of Advertisers.

BOILER TUBES.
Chicago House Wrecking Co.,
W. 35th & Iron Sts., Chicago.
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CATTLEYA TRIANÆ.
Julius Roehrs Co., Rutherford, N. J.
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DRACÆNA INDIVISA.
H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

EVERGREENS.
D. Hill, Dundee, Ill.
For page see List of Advertisers.

LADY CAMPBELL VIOLETS.
S. S. Pennock, 1612 Ludlow St., Philadelphia.
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MYRTLE.
S. J. Galloway, Eaton, O.
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NEPHROLEPIS BARROWSII.
H. H. Barrows & Son, Whitman, Mass.
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OYSTER SHELL LIME.
A. B. Clay, 402 Commonwealth, Scranton, Pa.
For page see List of Advertisers.

PANDANUS VEITCHII.
J. A. Peterson, McHenry Ave., Cincinnati, O.
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PLANTS FOR FALL DELIVERY.
Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PLANT NOTES

The drift of opinion among growers of high repute is that the "Baby Rambler," so called, is the most valuable addition to the list of popular plants since the advent of Lorraine begonia, and it is expected to stand alongside the latter as a Christmas favorite. A large number will be brought into flower for next Christmas in many sections.

A novelty in the Boston flower stores for Easter was Canterbury Bells, blooming in pots, beautiful plants, pink, purple, and white. Thomas Roland, the Nahant wizard, grew them. They were a surprise and delight to the public and the profession.

BUFFALO PERSONALS

Mr. and Mrs. Robert Klagge of Mt. Clemens, Mich., are visiting in Buffalo.

Arnold Ringler representing Barnard & Co., Chicago, is in Buffalo drumming up the growers for fall supplies.

Jno. Bishopp, late with E. A. Butler & Son, Niagara Falls, N. Y., has leased the greenhouses of W. J. Biggar & Co., and will conduct the business as heretofore.

William F. Kasting was taken suddenly ill on Wednesday last and is confined to his home; reports state he is somewhat improving and expects to be out again in a short time.

NURSERY TRADE

The nursery business throughout New England is badly handicapped by the peculiar season. The frost was not out of the ground so that digging could be done before April 10 or 12, in the vicinity of Boston, and since that time the tension has been very trying on both dealers and customers.

Thorburn's Bulbs

CYCAS REVOLUTA
At $8.00 per 100 lb.

LILIUM SPECIOSUM MELPOMENE
7-9 inch size, 200 in a case, at $6.00 per 100

LILIUM [AURATUM]
9-11 inch size, at $6.00 per 100

COLD STORAGE VALLEY PIPS
In cases of 3000, at $10.00 per 1000

LILIUM HARRISII
LILIUM LONGIFLORUM
LILIUM LONGIFLORUM MULTIFLORUM
Prices according to quantity upon application

J. M. THORBURN & CO.
36 Cortlandt St., New York.
In writing to advertisers, mention HORTICULTURE

Let Us Estimate On Your Requirement For
Lilium Longiflorum
Roman and Dutch Hyacinths
Paper White
Grandiflora Narcissus
Freesias, Valley, And all other Bulbs
WE CAN SUPPLY THE BEST

SCHLEGEL & FOTTLER CO.
26 & 27 So. Market St., BOSTON, MASS.
In writing advertisers, mention HORTICULTURE

GOOD MEN
When you need good men, skilled or unskilled, write:
THOS. H. BAMBRICK
34 South 7th St., Philadelphia
Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

HORTICULTURE is the only paper of its class in America.

The HARDY ANNUAL of the CENTURY
NICOTIANA SANDERAE
Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.
Wholesale Agents for the United States
HY. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortlandt St., N.Y.
VAUGHAN'S SEED STORE, Chicago and N.Y
In writing to advertisers, mention HORTICULTURE

SEED TRADE

The heavy frosts of April 16-18 killed a good portion of the bean, potato, cucumber, and tomato crops and also many cantaloupes in southern localities, but the work of replenishing is being rushed and the seed stores are getting the benefit.

GLADIOLI
THE BEST IN THE WORLD
Groffs' Hybrids, (Genuine) and other high-grade Strains, Winners of the GRAND PRIZE, World's Fair, St. Louis, 1904.
WRITE FOR ILLUSTRATED CATALOGUE
ARTHUR COWEE
MEADOWVALE FARM, BERLIN, N. Y.

Boxwood for Edging
Bushy Transplanted Plants, 6-8-inch
per 100 $6.00, per 1000 $40.00
O. V. ZANGEN
Hoboken, N. J.

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
..SEEDS..
Farm, Garden and Lawn Supplies
We carry in stock Duplicate Parts Leading Machines
32 So. MARKET ST., BOSTON
In writing advertisers, mention HORTICULTURE

Quality Seed Bulb Plant **S**
Arthur T. Boddington
SEND FOR CATALOGUE
342 West 14th Street *NEW YORK*

W. W. RAWSON & CO. Arlington Tested Seeds Boston Mass.
RAWSON'S
Arlington Tested
SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON
In writing to advertisers, mention HORTICULTURE

BULBS
HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
12 West Broadway New York

Tuberoses, Lily of The Valley
Catalogue and Price Lists mailed free
GET RESULTS USE
RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 No. Market St. Boston, Mass.
In writing to advertisers, mention HORTICULTURE

BURPEE'S SEEDS
PHILADELPHIA
Blue List of Wholesale Prices mailed only to those who plant for profit.
In writing to advertisers, mention HORTICULTURE

GREENHOUSES BUILDING OR PROJECTED

PHENIX, R. I. — Byron Snell, one house.

ATTLEBORO, MASS. — Neucheus Bros., one house.

PLYMOUTH, CONN. — H. S. Smith, one house.

ATKIN, MINN. — Clarine Bros., two houses.

LA CROSSE, WIS. — L. F. Easton, range of houses.

WORCESTER, MASS. — H. F. Littlefield, house 40 × 125.

BUSINESS CHANGES

Valentine Gatz is successor to Newman & Gatz, at Albion, N. Y.

Jeremiah Connor has leased the Atkinson greenhouses on Elm street, Pittsfield, Mass., and will remove his business to that location.

Adolph Scharff has sold out his nurseries at South Pasadena, Cal. John Lewis Childs, of Floral Park, New York, is the purchaser and will use the land for growing bulbs and seeds under the title of California Floral Park.

LIST OF PATENTS

Issued April 25, 1905

787,952. Lawn Roller and Mower. Howard C. Slater, Ridley Park, Pa., assignor to William P. Simpson, Overbrook, Pa.

788,155. Composition for Destroying Pear Blight. Oliver E. Horton, Jefferson, La.

788,319. Transplanting Plant-Can. Theodore L. Klaffke, Boon township, Oklahoma County, Okla.

788,333. Insect-Catcher. Floyd W. Scofield, Plymouth, Ind.

788,393. Combined Potato Cutter and Planter. Harry Dingman, Kimball, Minn., assignor of one-half to Walter Dixon, Kimball, Minn.

788,474. Celery-Trimmer. Louis B. Keller, Minneapolis, Minn.

788,475. Seed Dropper and Planter. Barham F. Kennedy, Jonesville S. C.

When your wife asks you to bring home some phosphate for the plants tell her that they don't sell less than 150 pounds. — *Boston Herald.*

SALE OF BOILER TUBES

Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3-8 inch to 14 inch.

Boiler Tubes, sizes from 1 3-4 to 8 inch.

50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

Lumber, Garden Hose, Etc.

ASK FOR OUR CATALOGUE NO. 554

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., Chicago

In writing to advertisers, mention HORTICULTURE

Hammond's Slug Shot for Potato Bugs, Currant Worms, Etc.



Sold in large or small lots.

Report of a Critical Test of Hammond's Slug Shot, etc.

MADE IN 1904

James Lawrence **EDEN TRIAL GROUNDS** E. R. Lawrence

1896

SPECIALTIES: SWEET PEAS AND POTATOES

DEAR SIR: Have been delayed in reporting on goods you sent me for trial by severe illness. SLUG SHOT was as good, and did the work it was advertised to do as well and effectively as compounds and mixtures costing double and triple the price asked for it. For potatoes it proved especially efficient. Your BORDEAUX PULP is all right, dissolves readily and minutely so it does not clog nozzles of finest sprayers. Your AMMONIATED COPPER SOLUTION saved my melon vines (musk). It was not a case of preventing blight, but of checking it after it had developed and to quite an extent. I shall be glad to use and commend your goods another season.

Yours truly, (Rev.) J. REYNARD LAWRENCE,
Nov. 21, 1904. North Middleboro, Mass.

Write for Pamphlet on Bugs and Blights **Sold by Dealers and Merchants all over America**

HAMMOND'S SLUG SHOT WORKS = Fishkill-on-Hudson, N. Y.



We are the Manufacturers Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston Mass.

In writing to advertisers, mention HORTICULTURE



In writing to advertisers kindly mention HORTICULTURE

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in Soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour. Send $1.00 for trial sack.

A. B. CLAY, Distributor

HASLAM LIME CO.

402 Commonwealth SCRANTON, PA.

In writing to advertisers, mention HORTICULTURE

Plant your advertisements here. It is good ground and will yield famously.

Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

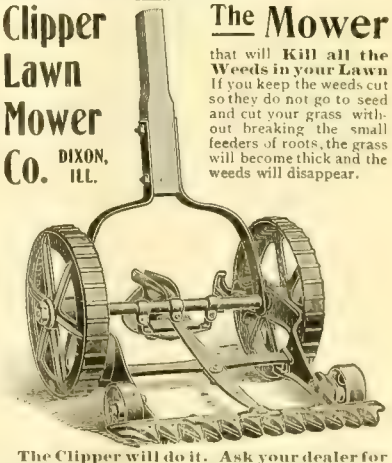
Merchants Bank Building
28 STATE ST. - - - BOSTON
Telephone, Main 58

In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will **Kill all the Weeds in your Lawn** If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5. No. 2—15-in. Mower, $6. No. 3—18-in. Mower, $7. No. 4—21-in. Mower, $8. Send draft, money order or registered letter.

In writing to advertisers, mention HORTICULTURE

Greenhouse Glass

In a few weeks the American Factories go out of blast. Good Glass will soon be scarce and much Higher. We have a limited quantity on hand at present prices

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. ✦ On the Corner ✦ 61-63 Portland St.

In writing to advertisers, kindly mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"Pecky Cypress"**

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

"One Spraying Enough"

"DISPARENE"

THE ONE INSECTICIDE that destroys all leaf-eating insects without fail; that adheres to the leaves for months undisturbed even by heavy rains, and NEVER INJURES THE MOST DELICATE FOLIAGE. Put up in sizes for 50cts., $1.00 and $4.25. Booklet free.

Also INSECT EMULSION For Green and Black Fly and Mealy Bug

"Add Water, and Spray"

BOWKER INSECTICIDE CO.

BOSTON NEW YORK CINCINNATI

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETED IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene,* and of course better than *ordinary Lamps.*

The ANGLE LAMP is *guaranteed* as *representea* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D.C.

In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

173 SUMMER ST., BOSTON

ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

GLASS Buy Now and Save Money

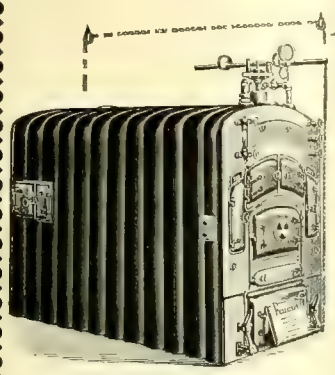
We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE



Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit
at Five different Florists' Conventions.

Have a Record of 20 Years - - - Over 25,000 Furman Boilers in Use

They are made in many styles: Round, Sectional, Brick-set,
Asbestos Covered, etc., and in sizes up to 85 horse power.
Costing from $25. to $1,000. each, Net.
Write to-day for valuable Catalogue. Special Net Wholesale
Prices to Florists. Address

The Herendeen Mfg. Co. Dept. H. T. **Geneva, N.Y.**

BRANCH OFFICES
39 Oliver St., Boston
39 Cortlandt St., New York

WESTERN REPRESENTATIVES
Edw. S. Dean, Bloomington, Ill.
E. K. Barr, La Crosse, Wis.

In writing to advertisers, kindly mention HORTICULTURE

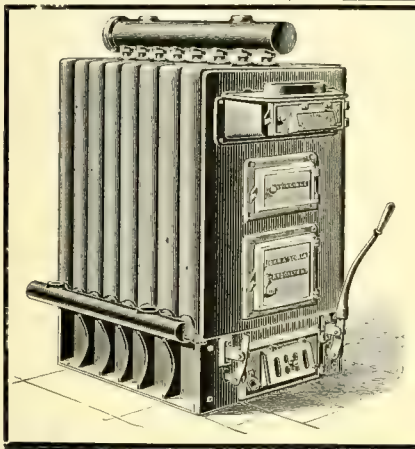
PUMPS Rider-Ericsson. Second-hand, from $40.00 up; all repairs; other makes; new; cheap.
BOILERS New and second-hand. 2 second-hand steam, first-class condition, will heat 1000 sq. ft. glass, at $35.00 each.
PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¾ cts.; 1¼-in., 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.
STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in. ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in.. 1½-in., 2-in. pipe, $4.00.
PIPE CUTTERS New Saunders Pattern. No. 1 cuts ⅛-in. 1-in. pipe, $1.00. No. 2 cuts 1-in-2 in pipe, $1.30.
STILLSON WRENCHES New. 18-in., grips ¾-in.-2-in. pipe, $1.65; 24-in., grips ¼-in-2½-in. pipe, $2.40; 36-in., grips ½-in -3½-in. pipe, $4.75.
PIPE VISES New. No. 1 Hinged, grips ⅛-in.-2-in. pipe, $2.25.
GARDEN HOSE New. ¾-in., guaranteed 100-lbs. pressure, 7½ cts. per ft.; ¾-in. not guaranteed, 4¾ cts. per ft.
HOTBED SASH New. Cypress, 3-ft.x6 ft., from 70 cts. up; glazed, complete, from $1.60 up. Second-hand, as good as new, at $1.25 each.
GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75.
Second-hand 10x12 at $1.40 per box
10x12 / 12x12 } B. Double at $2.40.
12x14 — 12x16 — 12x20 / 14x14 — 14x16 — 14x20 } B. Double at $2.60.
16x16 — 16x18.
16x20 / 16x24 } B. Double at $2.85
Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.
1398-1408 Metropolitan Av., Brooklyn, N.Y.

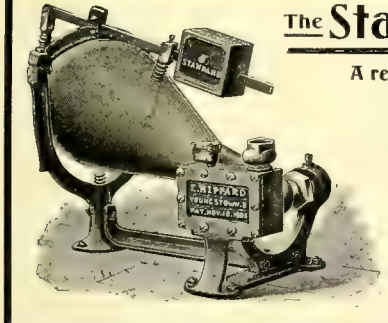
H. H. SYLVESTER
Mason and Builder
818 Tremont Building
Boston, Mass.

Greenhouse Mason Work a Specialty
In writing to advertisers, mention HORTICULTURE

Holds Glass Firmly
See the Point
PEERLESS
FULL SIZE No 2
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



Scollay Invincible Boilers
—FOR—
Hot Water or Steam
Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.
John A. Scollay
73 & 75 MYRTLE AVE.
Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices



The Standard Steam Trap
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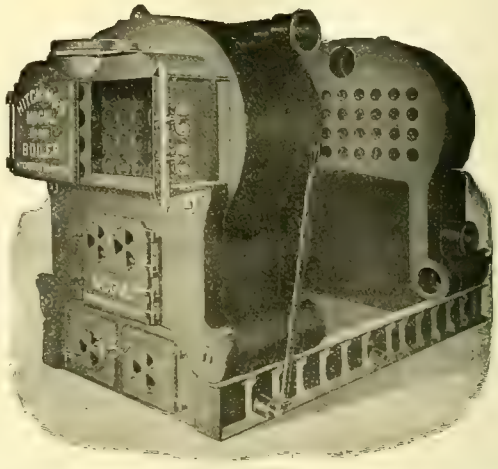
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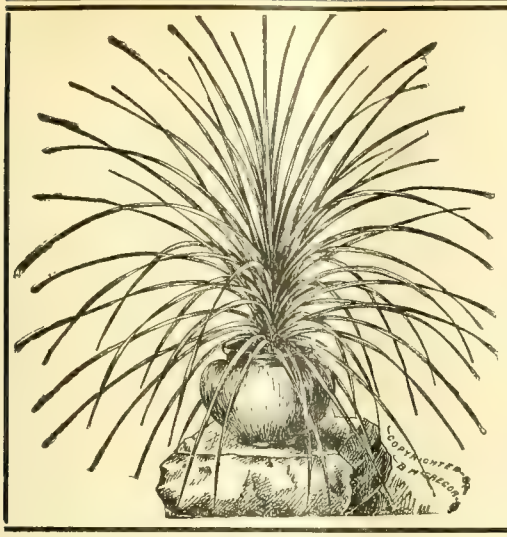
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makes a Standard Easter Plant. Its keeping qualities are above any other kind of flowering plants at present grown.

Sample Plants in Bloom, $1.50 each, $15 a doz.

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IS COMING

You need not go outside the pages of HORTICULTURE to find where to get the best flowers and the best florists' supplies in the country.

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A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres
Also, Araucarias, Rubbers, Pandanus, Aralias Dracaenas, Aspidistras, Marantas, Crotons etc., etc.

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Best Commercial introduction for many years.
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Keap St. Greenhouses, Brooklyn, N. Y.
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STRONG 2½-in. STOCK from BENCH

Nephrolepis Barrowsii
$25.00 PER 100

Scottii Ferns..... 10.00 per 100
Boston Ferns..... 3.00 per 100
See display ad. in HORTICULTURE May 6th.

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Strong Plants, 7- and 8-inch pots, with from 15 to 30 well developed Buds, $2, $3, and $4 each.

A Splendid Easter or Spring Pot Plant

YOUNG ROSES

Own Root AMERICAN BEAUTY. First crop now ready from 2½-inch pots. $6 per 100; $50 per 1000.

GRAFTED BRIDES and BRIDESMAIDS on Irish Stocks. $12 per 100.

Robert Scott & Son
Sharon Hill, Del. Co., Pa.

In writing to advertisers, mention HORTICULTURE

Headquarters for Coleus

Rooted Cuttings, Golden Bedder and C. Verschaffeltii	$6.00 per 1000
Rooted Cuttings, Mixed	5.00 "
2¼ Pots	15.00 "

The above ready now. Cash must accompany the order.

J. E. FELTHOUSEN, *FLORIST* *Schenectady, N. Y.*

CYCLAMEN SPLENDENS GIGANTEUM HYBRIDS

Once transplanted,	$2.00 per 100	$18.00 per 1000
Twice "	$3.00 per 100	$25.00 per 1000

Seed of only selected flowers and well-built plants. None better.

C. WINTERICH, Defiance, Ohio

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ARRIVED IN SUPERB CONDITION

CATTLEYA LABIATA
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Write for prices, also for catalogue of established Orchids.

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Just received in fine shape an importation of

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WRITE FOR PRICES TO
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Hon. W. R. HEARST

One of the best in cultivation. Distinct type. Reduced to 25 cents per plant, cash. Not more than one dozen to any one person at this price.

H. D. SEELE, Canna Specialist, Elkhart, Ind.
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Basket of Spring Flowers



We use a great many inexpensive clean chip baskets and hampers instead of boxes. Always, however, with the thought that the recipient will take the flowers from the basket and put them in water. This arrangement we think is especially appropriate for spring flowers.

H. H. Battle.

Bud Variation of the Grape

At a recent meeting of the Massachusetts Horticultural Society, the question arose as to whether a bud variation of the grape had ever been known and the conclusion was a negative one. But I am informed of one and I take pleasure in presenting to the readers of HORTICULTURE an account of same, which is to be found in the "Bushburg Manual," page 168, and copied from Bailey's "Annals of Horticulture" (1892) and I quote the description in full.

"Pierce Syn, Isabella Regia, a sport from Isabella, originating about the year 1881, with Mr. J. P. Pierce, of Santa Clara, Cal. The vine is an exceedingly strong grower and prolific bearer; the foliage is remarkably large; the clusters are of good size; the berries like the leaves of extraordinary size, twice the size of those of its parent, black with light bloom, and when ripe are exceedingly sweet, delicious, and slightly aromatic, the pulp readily dissolving. Mr. Pierce had it in cultivation under every condition and it has remained constant, showing no indication of returning back to the parent. The entire crop of two acres has been shipped to San Francisco for many years past under the name of 'Isabella Regia' and always realizing the highest market price."

R. B. White

Schizanthus

In the same botanical family with the potato, tomato, and tobacco is a delightful, graceful, airy florists' plant with finely-cut foliage and flowers having deeply incised corollas. This is the schizanthus, "butterfly" or "fringe flower." There are probably eight species, but all are more or less related to S. pinnatus, the common horticultural form.

The schizanthus is easy to grow. Given a good garden soil, plenty of light and air, and pot room as needed, they will thrive. They can be grown for two purposes. If the seed is sown in March or April, and the young seedlings pricked off into flats and kept growing until settled warm weather comes — when they are set out — they furnish nice garden plants. Or they may be grown for winter flowers. The seed is sown in September, pricked out when large enough, potted off, and shifted gradually into seven or eight-inch pots, when they make fine plants five or six feet tall, and will produce a great mass of



white, lilac, pale rose, deep rose, and violet flowers with spots and splashes of brown, yellow, and orange. As screens for pillars or posts they are splendid and will remain in bloom for several weeks.

The dwarf Schizanthus, S. Wisetonensis, is a fine border or pot-plant and ranges in color from white to crimson-brown.

R. L. Adams.

British Horticulture

A VETERAN ROSARIAN'S DEMISE

The world of horticulture is the poorer for the recent death of Mr. William Paul, who had reached the age of eighty-three. A few years after his father's death, he established the Royal Nurseries at Waltham Abbey, near London, in the conduct of which he was assisted by his son, Mr. Arthur Wm. Paul. The deceased nurseryman had devoted considerable attention to roses, and many leading varieties with a cosmopolitan reputation were raised by him. In 1848 he published his well-known work, "The Rose Garden," a tenth edition of which was revised about a year ago. In conjunction with the late Dean Hole, Mr. Paul was a leading spirit in promoting the first National Rose Show, held in July, 1858. He was also an active worker in the international horticultural exhibition held in London in 1866, and an associate commissioner for the Paris exhibition in 1867. Mr. Paul was a fellow of the Linnean Society and held the Victoria Medal of Honor of the Royal Horticultural Society. At his residence, Waltham House, which he purchased from the late Mr. Anthony Trollope, the novelist, was to be found one of the finest and most comprehensive horticultural libraries in existence.

FIFTY YEARS AT COVENT GARDEN

One of the oldest florists at Covent Garden, the premier market in Great Britain, is Mr. P. N. Garcia, who following his father and grandfather in the same business, has a record of over fifty years. In his early days, there was little done in the way of growing flowers for market. The bulk came from the private establishments of gentlemen in the neighborhood of London. Now the miles of market houses in the Lea Valley, a few miles out of London, at Worthing on the Sussex coast, Swanley and Baxley Heath in Kent, with the bulb farms in Guernsey, Lincolnshire, and the Scilly Islands, have completely revolutionized matters. In addition, heavy supplies are usually available from the south of France. Mr. Garcia expressed the opinion that there are now as many flowers handled in Covent Garden in a day as there were in a year in his early days. The process of retarding has also extensively developed the florists' scope. Lilies of the valley and longiflorums are available all the year round. Mr. Garcia has witnessed a good many changes. Years ago camellias were popular and fetched good prices, and now they are obtainable at from 2*s*. to 2*s*. 6*d*. a dozen. Gardenias and roses have superseded them. Carnations are steadily increasing in popularity, amongst the varieties in favor for market work being Mrs. Lawson, Royalty, Melba, Gov. Roosevelt, Sybil, etc. I learn that the increasing tendency to exclude flowers at funerals has made a great difference to the trade.

FLORAL EMBLEMS

In recent years the practice of wearing red and white roses on St. George's day has steadily increased, adding a welcome touch of color to our somber city streets, and giving the florists' trade an acceptable fillip. This year St. George's day unfortunately falls on a Sunday, and this will make a great difference to the demands made for the "Queen of flowers." Primrose day will be observed on April 19th, when this modest little yellow bloom is everywhere worn by admirers of the late Lord Beaconsfield. This affords a profitable trade for the street hawkers, but it does not very much affect the florists. The supplies are obtained from the hedgerows and plantations in rural England, and a raid is made on these by reckless vandals. Apart from this wearing of the primrose the adoption of floral badges by politicians has not yet "caught on." Mr. Chamberlain usually wears an orchid when in public, the buttoniere being sent daily from his extensive conservatories at Highbury near Birmingham. The expensive character of this flower, however, will prevent it from becoming popular amongst his numerous admirers. The trade wish that some more democratic floral adornment was adopted by this noted statesman.

TRAVEL AS AN EDUCATOR

Sometime ago a party of market gardeners from Evesham in Worcestershire paid a visit to the French growers' establishments in the environs of Paris, the tour being under the directorship of Mr. C. D. McKay, of the firm of Messrs. Watkins & Simpson, seed merchants, Covent Garden. The affair was entirely successful, and afforded the visitors instruction of a very valuable character. Arrangements are now being made for a party of British horticulturists to visit France next month. On May 16 they will leave London for Orleans, where on the following morning the leading nurserymen in that district will lunch with them. The chief nurseries will be inspected as well as the Jardin des Plantes. On May 20th, the International Exhibition at Paris will be seen at a semi-private view, and on May 22d the President and Council will receive the party at the exhibition. Invitations have been accepted to visit the seed establishment and trial grounds of Messrs. Vilmorin, Andrieux & Co., the nurseries of Messrs. Croux & Sons at Chatenay, those of Messrs. Dival & Son, Versailles, and the principal lilac growing and forcing establishments at Vitry. A representative number of British traders will participate in the tour, which from an educational point of view will be very useful, besides tending to cement the good fellowship between this country and our French neighbors.

W. H. Adsett.

London, England, April 15, 1905.

Ferns for Every-Day Use

DAVALLIA

(Continued from last week's issue)

D. illustris is a very heavy grower, fronds from two to four feet long of heavy texture, with long strong stalks, dark green color, spear-shaped, pointed pinnules set near together, the whole frond having a massive appearance. The rhizomes are thick and short, covered with long brown scales.

D. Novæ Zelandiæ from New Zealand is a small-growing species, fronds never over one foot and a half long, finely divided in narrow segments. The thin creeping rhizome is covered with brown, glossy, hairy, soft scales.



DAVALLIA ILLUSTRIS

D. pentaphylla from Java and Polynesian Islands, has fronds only once divided, about one foot long, short-stalked, composed of two or three pair of lateral and one terminal pinnæ of a metallic color when young. The rhizome is covered with narrow light-brown scales.

D. repens or hemiptera from Polynesian Islands. Frond nearly stalkless, simply pinnate and from eight to twelve inches long, and one and a half inches broad. The entire pinnæ are slightly curved at the lower part and rounded at the upper; sharply lobed and of soft texture. The black-scaled rhizomes are thin and creeping.

D. Eyermannii from the west coast of Africa, commonly known as "bear's foot fern." This small-growing species has the fronds of a bright green color, triangular in shape, and finely divided. The creeping rhizome is covered with white, narrow silvery scales.



(Stenoloma)
DAVALLIA TENUIFOLIA

STENOLOMA

Of the davallias with underground rhizomes there are only a few species.

D. tenuifolia from Malayan archipelago is well known and used.

D. t. stricta and D. t. Veitchii are two good forms not so much known. The first one is of an erect growth, larger in all parts and of a dark green, heavy texture; the second has fronds two to three feet long, on slender stalks, finely cut, and arching. It is a good plant for baskets.

D. aculeata and D. fumarioides, both from West Indies, are climbing; in their native country they cover whole fields and climb along the trees they can reach. The stalk is wiry, covered with sharp, curved thorns. The pinnæ are set like the lygodiums, but finely divided. They have the peculiarity of the gleichenias of lengthening themselves at the end to an indefinite length. The second is more finely divided than the first.

MICROLEPIA

This is a section with underground and above-ground rhizomes. They are very effective, and of a strong growth. Some of the best are:



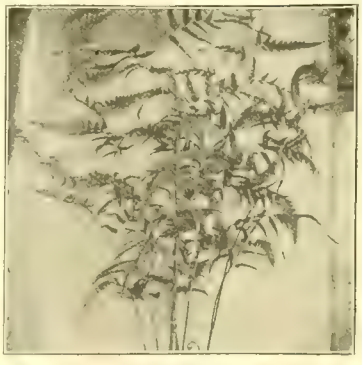
(Microlepia)
DAVALLIA SPELUNCÆ

D. hirta or D. scaberula from Ceylon; stalks strong and erect, the fronds from three to five feet long, and one to two broad, are three to four times divided. The pinnules are spear-shaped and cut in broad toothed lobes.

D. platyphylla from Ceylon and south Asia, has fronds three to four feet long, half as broad, and of massive growth on a strong, upright stalk. They are of glaucous green color. The pinnæ are long and broad, spear-shaped, the lower part divided into long, spear-shaped pinnules, the top deeply cut in oblong lobes.

D. speluncæ from Jamaica, has the stalks covered with brown hair at the base. The fronds, of large, triangular form, are finely cut and of heavy, leathery texture.

D. strigosa is found all over south east Asia and the Himalayas. The fronds are from one to three feet long, half as broad, the stalk hairy the whole length. They are twice divided, the pinnules bluntly toothed, the upper edge deeper than the lower. The rhizome creeps above ground and is covered with fine downy hair.



(Microlepia)
DAVALLIA PLATYPHYLLA

HUMATA

This section has the creeping rhizomes, and the fronds entire.

D. heterophylla and D. angustata from the Malayan peninsula, are the two only species in that section. They have their entire fronds short and narrow, shortly stalked and slightly notched. The first one has the fronds a little larger and the fertile ones more lobed.

Amédée Hans

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

II HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

We have received letters from two subscribers complaining of the receipt of over-kept flowers in response to an Easter order and the refusal of the shippers to make any concession thereon and asking if something cannot be done to prevent such practices. HORTICULTURE has from the start had very pronounced views on this subject and has not hesitated to express them. "We may give advice, but we cannot inspire the conduct," and we see small hope for reform until the more intelligent cut-flower growers take the matter in hand and bring pressure to bear on those individuals who, by their unwise practices, have done so great injury to the flower industry.

The studies in flower arrangement which Mr. H. H. Battles has from time to time contributed to our pages are admirable for their simplicity and their direct appeal to that artistic taste which constitutes almost the entire equipment necessary now-a-days in the successful floral artist. The specialist, with his improved greenhouses and advanced methods of culture due to intelligent application and study, has given us such a perfection of plant, flower, leaf, and stem, that no florist ambitious to rise to the level of first-class work for first-class patrons has any further use for the wire and tooth-pick methods of by-gone days or instruction on antiquated "making-up" methods. With the quality of material now available, the less "making-up" the better.

Very commendable indeed, is the action of the City Parks Association of Philadelphia urging the general display of window-boxes of plants in the residential districts of the city. A similar movement in London has met with great success and the result is a brightening up of the monotony of many of the streets in the poorer sections of the metropolis. In Paris also the streets are similarly embellished, and it has been noted that the standard of those localities where window-gardens flourish, has been materially raised since their general adoption. It is contemplated to have some of the London horticultural societies offer substantial prizes for competition in out-door window gardens in the poor localities in the metropolitan area the coming summer. This form of æsthetic philanthropy has everything to recommend it.

Those growers who had candidum lilies to offer for Easter this year, found a ready appreciation for the fragrant blooms and realized a profit far beyond that yielded by the longiflorums. Admitting that the quick sale and the price were possible mainly because there were but few of them, and that a general return to candidum culture would not be wise, yet it remains true that the old favorite retains a firm hold on the affection of many people who look upon it as the true "Easter lily." The availability of longiflorum and Harrisii was not the main cause of the abandonment of the candidum as an Easter crop. This was due fully as much to the depreciation in the quality of the bulbs obtainable and the miserable character of the flowers produced therefrom. The bulbs from the northern part of France, which in the past had produced each from ten to fifteen big heavy blooms with waxy overlapping petals, were superseded by bulbs grown in Turkey or the south of France, very large bulbs, but producing small, thin, narrow-petaled flowers, short lived and miserable every way. If growers can assure themselves that they are getting the right bulb they can safely invest in a moderate supply of them and will find them in acceptable demand. Candidums require a very different treatment from that given to longiflorums. They must be put outside and frozen before being started in the greenhouse. January 1 is early enough to start them, and good growers say that the temperature of a carnation house, about 50 to 52 degrees at night is about right for them.

Some of our contemporaries have waked up to the fact that the Baby Rambler rose is a great acquisition as an Easter plant. As far back as last December HORTICULTURE gave especial prominence to an illustrated interview on this subject with Mr. Lynch of the Dingee & Conard Co. One of our contemporaries in its issue of 29th ult. records that W. K. Harris marketed some Baby Ramblers that were a revelation; that one-year-old plants in 6-inch pots which had already flowered at Christmas and been cut back to the pot for cuttings, had, when delivered by him at Easter, from six to ten or more clusters of flowers larger than the best Crimson Rambler, more open and not disposed to fall off as does the Rambler. The prediction is then made that it will entirely replace the "parent" plant as an Easter staple. In an editorial a western contemporary states in a recent number that the Baby Rambler as an "Easter plant" has come to stay. What's the matter with it for any kind of a plant — for Easter, Christmas, Decoration Day or any other function? It's always ready. Moreover, one of our leading authorities in rose culture states most positively that own-root stock will produce more brilliant flowers and of larger size than will budded or grafted plants.

This point should be made particularly emphatic as statements to the contrary have recently been published.

We do not wish to indulge in a pæan of "I told you so," but it is permissible to call attention once in a while to one of the many instances where HORTICULTURE's correspondents have demonstrated their ability to give the jiu jitsu to their lagging contemporaries.

After Adjournment

The *New York News*, in a little story about bridal bouquets and bridal adornment, tells its readers that, "for the bride's veil, Easter lilies are often used either instead of or combined with orange blossoms." Effect must be stunning!

We have it on the authority of the *Boston Post* that the nepenthes is in the habit of catching rats in its deadly pitchers and killing and then digesting the body of the victim. It furnishes a striking picture of a rat with his head in chancery as an evidence of the veracity of the tale. Enough said.

Charles W. Ganzell, the former famous catcher of the Boston National league ball team has been confirmed as park commissioner of Malden, Mass. Thus does the serious business of life make common cause with the sportive element and Mr. John Westcott's paradise seems to come nearer and nearer to full realization.

Exposure of the substitution of common earth for rich garden mould in the resoiling of portions of Central Park by Park Commissioner Pallas's favorite contractor, Charles L. Doran, has been fully corroborated through an investigation by Comptroller Grout. The contractor's bills for impoverished earth already delivered will not be paid, and Commissioner Pallas will be warned that further injury to the city's great pleasure ground through improper resoiling will lead to serious consequences. The report to the comptroller says: "Under date of April 10, 1905, a contract was made with Charles L. Doran for furnishing and delivering 10,000 cubic yards of garden mould for the park department. This contract provides that 'the material shall be fertile garden mould, clean and free from stones, roots, weeds and other extraneous matter.' The contractor has commenced delivering material under this contract. The material has been obtained from excavations made from cellars in 118th street, between First and Second avenues, and in 121st street between First and Second avenues." — *Boston Transcript.*

Is this the "fine work of civic patriotism" undertaken by the public-spirited women of the West side or is it some of the "drastic methods" that were to be instituted for the salvation of the Mall elms?

If you have orders for flowers to be delivered on Trans-Atlantic Steamers, transfer them to Alex McConnell, 546 Fifth Ave., or Thos. Young, Jr., 43 W. 28th Street, New York City.

"Tickle her with a hoe and she laughs with a harvest." Very true, unless the bugs take possession. Have a bag of Hammond's Slug Shot ready for them at all hours. Slug shot and eternal vigilance are a winning team.

Watch our advertising columns for sterling novelties. There are several this week that every one can safely invest in. That Barrowsii fern is a gem of the first water and bears a like relation to the original Piersonii that Scottii does to the old exaltata Bostoniensis. Wellesley rose is already too well known to need any further recommendation. Crassula hybrida, Louis Dupuy's masterpiece, is in a class with the fancy ericas and epacrises for beauty. Those who have it next season will not regret the investment. And then there is Begonia Turnford Hall, the new pure white Lorraine offered by Cincinnati's crack grower, J. A. Peterson. It is a winner.

GRAPES

In last week's issue of Horticulture appeared a communication from Mr. Roman in regard to grape vines failing to show fruit. This is a matter of much importance and I hope to see in Horticulture many responses to Mr. Roman's inquiry.

Having a violet frame over the grapery border, heated as was stated, doubtless in some measure contributed to the failure, but as it appears the growths from these vines are healthier and stronger from the bottom than from the other parts it would seem that the trouble is not all at the roots, although no doubt too large a percentage of bone was used for the compost put in the violet frame — 100 per cent of bone meal would injure most things. Many people are very anxious to see their vines bearing a large crop, even eager to increase each year's yield; in some cases this is carried to such a length that the vines are weakened resulting in little or no fruit, all because they were too heavily cropped.

Over-cropping ought to be guarded against especially with young vines, and the fact that the vines in question were only five years old and had been started in to growth three weeks earlier than last year, after having borne a very good crop of grapes, is very likely one cause of their failing this year.

In grapes it is very important to get the wood ripe before pruning; perhaps the wood was not ripe enough when Mr. Roman had his vines pruned. Vines showing no fruit and having but little growth and even that of a yellowish appearance would seem to be in a rather bad condition, especially when it is considered they are only five years old. If the shoots growing from the bottom of each vine are vigorous they ought to be left on, and allowed to run up, every other one to the top of the house, the remaining ones pinched back at about six feet from the ground. It might be suggested that the shoots allowed to run up to the top of the house take the places of every other one of the five-year-old canes, or in other words, cut out every other one of the five-year-old vines (cutting them next winter) letting the young shoots take their places, but cut them back to three feet in winter. If after a trial next year any of the five-year-old vines left show any improvement they could be left, and in the places of any that show no improvement there could be placed the shoots stopped at six feet this summer. The first year these young vines ought to be cut back within three feet of the ground and not allowed to bear fruit.

D. McIntosh.

BUFFALO PERSONALS

W. F. Simmons and family of Toronto, were recent visitors in Buffalo.

William F. Kasting who was ill, has much improved, and can now be seen daily at his business.

Cheerful Harry Bunyard made a return-trip call this week for the orders he did not get on his first visit.

Christ Bartz, well-known to the trade, has returned from Waynesville, N. C., to look after the interests of the J. H. Rebstock Co.'s excursion lines.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Being unable to see all personally, we wish to use this column to express our sincere thanks and appreciation for the flowers and other kind remembrances of our friends during our late bereavement.

James D. Rough.
Nellie S. Rough.
Mary J. Rough.

The following answer has been received from the Park Street Market appertaining to the challenge recently issued in this column.

To the Growers of Music Hall Market:

Being duly authorized we accept your challenge for a ball game and suggest that we will meet your representatives at once and arrange date and place.

Charles Evans, *Manager.*
Edward Crowley, *Captain.*

A picnic and ball game between the two Boston Flower Markets has been arranged for Saturday, June 3, in Natick. Tickets $1.

Thos. F. Matthews.

WHOLESALE CHESTNUTS

Plant beds with plants of one kind. Crazy-quilt work is vulgar, and troublesome in more ways than one.

Don't let up on bugs, moths, and insects; if you get tired fighting them they will get livelier than ever.

If you have anything good to exhibit, show it; if for nothing else do it for the upbuilding of the craft. Exhibitions have accomplished wonders for horticulture, so keep the good work a going.

Why stop growing chrysanthemums? Keep your hand in; if not, the other fellows will get the better of you when chrysanthemums come to the front again, as they surely will.

Gladioli are less troublesome than most things grown and fully as useful; put in a lot of the best and you will not be sorry.

Go around now and see how your neighbor does things; go back again and note results. If his ways are better, as shown by results, don't be too "stuck up" to imitate him. You can't tell but he may return the compliment.

Don't worry if things don't turn out exactly right. Experience gained through one big failure has been known to be of more benefit than a hundred minor successes.

"White Heather" is the title of a booklet compiled by Ellen Veloin, 40 West 20th street, New York, and designed for the use of florists in soliciting wedding commissions. White heather, the Scottish symbol of good luck in marital matters, adorn the cover, and the pages are given up to ring lore and mottoes, symbolism of precious stones, names of wedding anniversaries and similar information. Upon the title page and back cover space has been left for the name of any florist who wishes to use the volume as mail literature. Accompanied by a personal letter during the recognized wedding seasons of the year it ought to produce business. — *Printers' Ink.*

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB

Forty members were present at the May meeting last Monday night. The amendment to the by-laws raising the secretary's salary and transferring the duty of dues collecting to him was carried.

The question box was again prolific in starting discussion.

"Are street merchants and peddlers beneficial or detrimental to the florist business?" was replied to by A. H. Langjahr on behalf of the wholesalers, George Darsley and John Donaldson for the growers, and W. Marshall for the retailers.

"What are the essential qualifications of a judge of plants and cut flowers?" brought out a good response from Patrick O'Mara.

The question, "What is the most valuable plant introduced in the memory of any member of the Club?" was attended to by Messrs. O'Mara who named Ampelopsis Veitchii, George Darsley who mentioned the Double Geranium, Charles Lenker who favored the Crimson Rambler rose, James T. Scott who specified the American Beauty, and several others with a variety of favorites.

It was voted to have in June, a Ladies' Night, with exhibition of strawberries and pæonies.

The display of bedding plants on the exhibition tables was very large and creditable to the growers thereof, to whom an enthusiastic vote of thanks was accorded. The following is a list of the awards:

Award of merit for culture to Smith & Lappie, Phlox subulata and candytuft.

James H. Henderson, hydrangeas.

S. C. Schroeter & Son, coleus, ageratum and Salvia Fireball.

John Birnie, Geranium Mme. Landry and verbenas.

H. Bauman, mignonette and geraniums.

Hartmann and Wagenfohr, cinerarias and polyanthus.

John Reichert, Crimson Rambler roses.

H. C. Steinhoff, H. P. roses in pots.

Charles Hunt, Pelargonium, Victor geraniums assorted, and pansies, extra fine.

Herman Mende, Mme. Salleroi geranium, English ivy, ivy geranium and Poitevine geranium.

C. Pesenecker and Son, pansies, very fine, candytuft, and Funkia var.

John Tschupp & Co., fuschia, Little Beauty.

Augustus Spies, pansies.

Wm. Stadtmiller, sempervivum, lantana, and musk.

Fred. Englen, heliotrope and Pelargonium Victor.

George Darsley; geraniums.

John Harrison, lemon verbena.

Leach Bros., petunias, double, heliotrope and Anthericum.

F. Weinberg, sempervivum, sedums, echeverias, phyllocactus and Cavissa foetida.

F. Dressel, kentias.

Peter Yost, Sempervivum Lindenii.

Honorable mention to:

Tonicassia, Armeria maritima.

George Fick, daisies and forget-me-nots.

Aug. Kressinger, nasturtiums.

Charles Heinz, Myrtus communis.

AMERICAN ASSOCIATION OF NURSERYMEN

In the program for the convention of this society, a paper upon "San José Scale Again — The Best Spray," by F. C. Hall of Maryland, has been substituted for "Plants in Department Stores," by Howard A. Chase, on Wednesday, June 15.

NEW JERSEY FLORICULTURAL SOCIETY

The regular monthly meeting of the New Jersey Floricultural Society took place on Friday May 5, in their rooms in Orange. Orchids in variety were exhibited by Julius Roehrs (D. Kindsgrab, William Runkle), William Barr (Arthur Bodwell) and Henry Graves (Edwin Thomas). Roses by John Crosby Brown (Peter Duff) and carnations from the Colgates (William Read), A. C. Von Gaasbeck (William Bennett), Charles Hathaway (M. Hornacker). Vegetables by Stewart Hartshorne (A. Caparn), and Mrs. William Pierson (Charles Ashmead). A hybrid Lælia purpurata var. William Barr, exhibited by Julius Roehrs for the first time, and specimen Cœlogyne pandurata, the only green and black orchid, from the collection of Henry Graves, grown by Edwin Thomas, and Cattleya Mossiæ with forty-one blooms from that of William Barr, grown by Arthur Bodwell, and a vase of seedling carnation grown by M. Hornacker and certificated, were of chief importance.

The topic of the evening was a "Talk over the Fall Show" which it was decided to hold in November.

After adjournment the project of a new orchid society was discussed. The society has orchidists Julius Roehrs, John E. Lager, Henry Hurrell, Dr. J. M. W. Kitchen, W. A. Manda, Jos. A. Manda, William Barr, and Henry Graves, among its members at the present time.

JOS. B. DAVIS.

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of the Newport Horticultural Society was held last Wednesday evening, first Vice-president Alexander MacLellan in the chair. Several matters of importance came up for settlement, among them being the vexed question of what to exclude in the class for a gateway decoration at the coming exhibition. Inasmuch as Miss Keteltas' motive, aside from her interest in the society, for offering the cup, is to bring out something suitable for planting at gateways different from the stereotyped beds of retinosporas, it was decided to make the class read that nothing will be excluded except coniferæ and that this class be exempt from the stipulating three-months' possession before date of exhibition.

The committee on advertising reported very satisfactory progress and that many of the largest horticultural firms had already made application for space in the schedule, while many more asked for space for exhibits in addition.

Robert Patterson resigned from the State committee on rural progress on account of other engagements, and Alexander MacLellan was elected in his stead.

LENOX HORTICULTURAL SOCIETY

The Lenox Horticultural Society held its regular meeting on May 6, 1905. President R. A. Schmid was in the chair. A diploma was awarded to Elm Court Farm for a magnificent plant of Cattleya Mossiæ. August Harrier and Joseph Tansy were unanimously elected members of the Society.

William Woods, gardener for Mrs. John E. Parsons, of Lenox, gave a very interesting lecture on "The Leaves of Plants," which caused a great deal of discussion.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Growers of and dealers in American-grown bulbs are notified that the usual accommodations will be extended to them free of charge for the display of American-grown bulbs at the convention to be held in Washington, D.C., August 15–18, 1905.

WM. J STEWART, *Secretary.*

NOTES

The Holyoke, Mass., Horticultural Society will hold a rose show in June, time, place, premiums, etc., to be announced later.

The New Haven County, Conn., Horticultural Society will offer premiums for the best-kept amateur garden in New Haven this summer.

The Nassau County New York Horticultural Society held its regular monthly meeting on the evening of May 3d at the Glen Cove Greenhouses, the attendance was fairly large. A paper on "Hardy Flowering and tree-like Shrubs" was read by John F. Johnston. Discussions followed.

The Kentucky Society of Florists held its monthly meeting with Messrs. Coenen & Co., on May 2. The attendance was astonishingly large and very enjoyable. President Baumer on behalf of the society presented a handsome cane to Financial Secretary Coenen, with an appropriate speech. After the meeting, lunch was served.

A GOOD WORK

The Home Gardening Association of Cleveland, O., organized for the purpose of supplying the school children with flower and vegetable seeds of easy germination, at the end of five years finds its work more widely known and its aim better understood. This is manifest in a number of ways. The occupants of a small house are furnished an incentive to make the yard attractive; the real estate dealer recognizes the improvement in the appearance of property and appreciates the consequent increase in values; the teachers and school officials, almost without exception, concede the vital interest aroused in the pupil and are ready to make use of this aid to school work, and people concerned for the improvement of the city conditions are satisfied that this is one of the effective means to secure that most desirable result. Inquiries from other communities are increasing and in a number of instances work along similar lines has been started. The sale of seeds this year exceeded that of any previous year. The total number of packets and bulbs distributed being 237,393, of which 140,106 packets of seeds and 27,440 gladiolus bulbs went directly to the Cleveland school children, and 57,857 packets were sent to schools and organizations outside the city. A. L. H.

Charles E. Perkins of Boston, has presented his native city, Cincinnati, O., with a tract of valuable land, five and one-half acres in extent for a public park. The only restrictions are that the public shall have access to the park at all hours, that there shall be a playground for the children, and that no portion of the park be made into a flower garden.

Obituary

ALFRED WHITING

Alfred Whiting died at his home on Whiting Lane, West Hartford, Conn., on May 5, at the advanced age of 81 years. Mr. Whiting was in business as a florist on Whiting Lane between fifty and sixty years. He was a member of the S. A. F. continuously from the second convention, Philadelphia, in 1886, and attended the conventions regularly until obliged by the infirmities of age to discontinue. None knew him but to like him and he enjoyed in a marked degree the respect and affection of his brother florists, several of whom acted as honorary pallbearers at the funeral. The casket was carried by workmen employed by Mr. Whiting in his business. Mr. Whiting leaves one daughter, an only child, his wife having died in 1874.



FRANK A. PIERSON

Frank A. Pierson, eldest son of A. N. Pierson, of Cromwell, Conn., died at his home, April 29, at the age of 28 years, of spinal meningitis, after an illness of one week. Two physicians and two nurses were in constant attendance at his bedside, and several experts, who have made a special study of this disease were called in consultation, but all efforts to save his life proved unavailing. Mr. Pierson had obtained a good knowledge of greenhouse work from his father, and a few years ago started in business for himself. He made a specialty of bedding stock, etc., and grew large quantities of smilax and some asparagus. His business had increased rapidly and arrangements had been made for doubling his plant this spring.



About three years ago he married Miss Ruth Coe, who with one child survives him. Last fall he was chosen to represent the town in the State Legislature and was a member of the committee on banks. His disposition was kind and affectionate and he made friends readily and held them to the end. He was very popular in his home town and enjoyed a large acquaintance throughout the State. He was especially fond of nature, loved the woods and spent a part of each year in Maine where he had a camp. He was a practical electrician and had devoted much time to amateur photography, in which field he had done some excellent work. The funeral occured at his late home, Tuesday, May 2, and the burial was in Miner Cemetery, Westfield, Conn.

BENJAMIN GINGRICH

Benjamin Gingrich of 732 East Dubail Ave., So. Bend, Indiana, died very suddenly May 2, at the age of sixty-two years. He was the president of the South Bend Floral Company.

E. T. HEINEMAN

E. T. Heineman, formerly of 5426 Walnut street, Pittsburg, Pa., is reported dead.

Rosa Rugosa Crossings

Extract from notes by Maurice L. de Vilmorin in "Revue Horticôle."

ROSA MICROPHYLLA × RUGOSA

The introduction of roses with rugose foliage into culture marks an event, the importance of which may be already predicted, but cannot yet be definitely estimated. It may be that this species offers to seedsmen and to hybridizers in general potentialities comparable to those which characterized the introduction of the Bengal blood into the gardens more than a century ago — the starting point of a great revivication in rose production.

Grand and rare are in fact the merits of the Rosa rugosa. It is naturally sturdy, abundantly furnished with beautiful glossy dark foliage, turning fiery-ocre color in the latter part of the season; its flowers are the most abundant in the rose genus and are produced during the whole course of the summer and autumn; the fruits exceptionally beautiful, adorn it to the end of the season, and finally this rose enjoys the unique distinction of a robust vigor, which permits it to withstand the coldest weather and to hold out against parasites, insect and fungous, better than any other rose.

Cultivators in love with the rose cannot overlook these grand qualities. In its native land Japan this species has been crossed or has crossed itself naturally with at least two other significant species: with the Rosa semperflorens or Bengal rose — either the typical or probably an already crossed Bengal rose — and with the Rosa multiflora. The first crossing has resulted in the rose, Taikun, with foliage more narrow than in rugosa but larger flowers, double and fragrant. Of the second came the rose Ywarda de Siebold, producing a compact bush six to eight feet high, presenting abundant foliage, but with white flowers, small, and of short duration, and of insufficient hardiness.

Some other crossings have been made by the Japanese, but it seems that these passionate gardeners prefer to devote themselves to the search for varieties, as numerous as possible, which the original type may give them by spontaneous variation or at least by simple breeding.

It was reserved for European and American horticulturists to develop the rugosa types, and gratifying results have already followed the crossing of rugosa with varieties under cultivation. One of the first hybrids is Madame Georges Bruant, out of rugosa × The Sombreuil. Many other varieties have been found; it would in fact be an interesting study to review them all. In general the hybrids are endowed with nice foliage, the flowers frequently have a rich and delicate perfume, which in rugosa is but slight.

Among the rugosa hybrids existing in botanical collections which merit a place in amateur collections are: Carolina × rugosa, lucida × rugosa, aricularia × rugosa, Californica × rugosa, rugosa × ferruginea, rugosa × Virginiana, rugosa × blanda, rugosa × Beggeriana, rugosa × lutea, and rugosa × foliosa.

We now reach the main object of this article, the rose hybrid, microphylla × rugosa This makes a very nice bushy plant suitable for planting either as a single shrub, or in a border. It forms a regular bush of five feet in height and with a width of equal dimensions. It retains the erectness of twigs, the double prickles at the base of the foliage, the globular bud and the prickly fruit of microphylla. From rugosa it has inherited the abundant foliage to the base of the twigs but, although very rich, it does not equal the grand, round, and reticulated leaves of rugosa. The flower, of a rosy, pale lilac, exceeds three inches in diameter, but unfortunately the petals are deficient in consistency. The flowering commences in the middle of June and is prolonged until August, with some flowers later in the season, but it cannot be said that the rose is a monthly or remontant rose. The fruits are very pretty, shining orange color, nodding on short stems. The pulp reminds of the odor and taste of the apple, while the red fruits of rugosa are tasteless and the green fruits of microphylla are astringent and bitter. These fruits contained seeds in abundance.

This rose originated in the garden of the botanical institution in Strassburg by accidental proximity of its two parents. It is probable that microphylla was the female parent, as the hybrid was found close to the root of this species, among other numerous natural seedlings.

Edward Grady, driver for A. M. Davenport, of Watertown, was badly injured in a runaway, May 6, the horse he was driving taking fright at an automobile.

OUTDOOR ART

The Metropolitan Park Commissioners have granted locations to two trolley lines to traverse the Middlesex Fells reservation.

J. W. Adams & Co., of Springfield, have secured the contract for furnishing the trees and shrubs for the beautifying of the town of Easthampton, Mass.

The Park Commissioners of Webster, Mass., have awarded the contract for grading and planting the new park at the junction of Main and Lake streets, to Fred. A. Wellington.

More than 200,000 shade and other ornamental trees have been shipped into Denver since the first of the year for local use. This exceeds the shipments for any like period within the last ten years.

Within a few days the Boston and the Metropolitan park systems will be connected so that there will be a continuous thirteen mile parkway from the Boston Common to the foot of Great Blue Hill in Milton.

Nineteen willow hampers, each containing 17,000 young spruce trees, imported from Germany by the Remington-Martin Company of Norfolk and Raymondville, have arrived at Potsdam, N. Y. The company proposes to plant the trees on its tract of land southeast of Potsdam. The seedlings will be set where there is now a forest covering, thus insuring protection to the tender plants. The company expects to be able to make a cutting in 20 years.

HE WHO PLANTS A TREE

There is a fine patience and broad charity in the man who plants a tree. No one action better typifies the real purpose of our living.

He who plants a tree may never enjoy its shades or gaze upon its full-grown splendor, but he is doing what he can to make the world a wholesomer and happier dwelling-place for those who come after him.

What a noble gift to a man are the trees! How pleasantly their shadows fall upon us when we turn from the glitter and turmoil of man! The winds of heaven seem to linger amid their balmy branches and the sunshine sifts through the green leaves like a blessing purified.

We call the tree an inanimate thing, and yet the plants, of which the tree is the head, manufacture all the world's living material. They make it of carbonic acid gas, to man a poison, and release life-giving oxygen. But for the trees the atmosphere of the earth would be a deadly gas. But for them the surface of the earth would be bleak rock.

The tree is a thing of wondrous interest and beauty at any season — in the spring when its buds and blooms are opening, in the summer when its broad canopy of glorious green whispers repose, in the autumn when it prodigally flings forth its brilliant colors,



and in the winter when its bare branches are like etchings against a sky of steel.

Of all man's works of art a cathedral is greatest. A vast and majestic tree is greater than that. If the groves were the first temples, it is equally true that the tree was the first to suggest to man's mind the infinite.

From the first it has furnished man with shelter and fuel. Under its leafy dome the greatest charter of human rights has been signed; the world's greatest treaties have there been written; and the surrender of great armies has been concluded there. But for the tree human history would be a thin tale soon told.

Beneath the tree the weary have rested and found strength and hope; there lovers have trysted ever since love first illumined the world; there Adam and Eve were tempted and lost paradise; there children have played and restored it; to the soothing shade man ever has turned with his griefs and found calm and peace.

He who plants a tree plants shade, rest, love, hope, peace, for troubled ones who will come his way when he is gone. Is it not a noble monument to leave?

There is nothing in which God asks so little of us and gives so much as in the planting of a tree. He gives the soil, the seed, the moisture, the sunshine, the air — aye, and the selfless impulse to do our own little part of just planting it comes from Him, too. — *Albany Times Union.*

THE PALISADES PARK

The Palisades Interstate Park Commission is proceeding with its important work in an unostentatious way. Last year the commission added 112 acres to the park, making the total acreage over 438, with a frontage on the Hudson of 41,923 feet. The total cost of the park thus far is $326,804.30. The river frontage to be included in the park extends for 13.86 miles, of which 11.02 miles is in New Jersey, and of this State frontage 17,710 feet is yet in the hands of private owners. One-seventh of the private frontage has practically been purchased.

The commission began its labors in 1901, and in four years has accomplished splendid results. In another four years the entire frontage on the Hudson will be secured and dedicated as a public park forever, and New Jersey and New York will have the most unique and beautiful park in the whole world, a park that preserves the famous Palisades of the Hudson of matchless scenic beauty. The vandalism that destroyed so much of the cliffs has been ended by the enlightened action of the States in coöperation and posterity will bless them for it.—*Newark, N. J. Advertiser.*

AND CRAFT

PARK ROADS

J. A. Pettigrew, in American Park Superintendents' Bulletin

Park roads, unfortunately, are a necessity. This being so let us hide them as much as possible within the woodlands. Not, however, so much so as to nullify the purpose for which they are intended; that is, to afford a means of viewing the beauties of the park from vehicles. Let us, then, treat them as a means to an end — supernumeraries, as it were — while nature holds the front of the stage. And let us plant our roadsides, occasionally letting the fringe of bushes intrude over the edge, thus softening the hard lines so often apparent — our native material does the thing admirably.

ROAD CONSTRUCTION

Seeing that we must have roads in parks, have them well built, and that, too, without unnecessary expenditure of money. For ordinary park use a road of six inches in thickness of road metal when rolled is ample, provided the sub-bed is properly made. Our experience convinces us that neither clay nor loam need to be excavated from the sub-bed to a depth lower than four inches, as a sand layer of this thickness will prevent the clay or loam bottom from moving. Having drained and graded the sub-bed to a point six inches below finished grade, the top four inches of the sub-bed being sand or fine gravel, the operation of making a road is very simple. First, lay sufficient good broken stone, of 2 inch to 3 inch cubes, to make four inches when rolled; add enough stone screenings or coarse bank sand to fill *all* voids; water and roll well, first with a light roller; care must be taken that the stone is spread over the sand bed, not through it by the churning of the wagon wheels. Over a clay bottom everything depends on the integrity of the layer of sand. For the surface a good wearing stone should be selected, a tough-textured trap-rock is the best, granites are usually too hard and brittle, they grind under travel and require unusually good binding material; of limestones, some are good. The question of the surface stone, however, must be decided by what may be available in the locality. Two inches of stone, of 1½ inch cubes, when rolled, is sufficient for a surface course. This course should be bonded with clean, sharp stone screenings. Again water and roll with heavy roller, adding 1½ inch cube stone to fill up any depressions that may occur, until the road is firm and true to section; a sprinkling of stone of ½ inch cubes may then be spread and rolled in, and the road is ready, after drying out, for travel. It may be again emphasized that only enough of screenings should be used to fill interstices and bond the road, leaving no surplus on top.

CLAY IN ROAD MAKING

Clay is the most satisfactory when left out of road making; in fact, it will not stay in macadam road: when wet, it will come to the surface almost as quickly as soap grease.

TELFORD FOUNDATIONS

Telford foundations, even though made exactly as prescribed by the inventor, cannot be as stable as those made of macadam, because of the unequal bearing of the stones relatively with each other on their beds. Macadam comes nearer to it, in addition to its better bond.

ROADS AND ROAD MAKING

John Dunbar, Rochester, in American Park Superintendents' Bulletin

Roads and road making have been so thoroughly discussed in this Bulletin, that hardly any more of importance can be added. I am pleased, however, to notice that Mr. Pettigrew states that "for ordinary park use a road of six inches in thickness of road metal when rolled is ample, provided the sub-bed is properly made." In some of the park systems of this country, Telford Macadam roads have been constructed of eighteen inches in thickness. The cost of this is so great, that to suggest it in some cities for park roads is at once prohibitory. Our Boston friends have the best park roads in the country, and if that desideratum can be accomplished by Mr. Pettigrew's concise and clear statement of "how to do it," good park roads can be built to a considerable extent without indulging in lavish expenditures.

In Highland Park, Rochester, an experiment was tried in 1892 with grass walks. There is a shrub collection on a southern slope on which walks were graded ten feet in width. As most of the grades were quite steep, it was a problem how to construct walks cheaply that would not wash or erode in rains. We decided to sod them, and as the walks have now been in use ten and twelve years, we can emphatically say that the grass walks in question have been most successful and satisfactory. They are kept closely mowed, and they are wide enough, so that there is no tendency to make "beaten tracks." At some points where people enter the collection, and where traffic is congested, of course the grass wears out and needs renewing in two or three years, but these areas are very small. In a moist season like the present, the appearance of these grass walks is very pleasing, and women particularly are fond of walking on them.

At the Arnold Arboretum, Dr. Sargent has been establishing grass walks, which are kept closely mowed, and as they wind through the woodlands and the large collections that comprise that magnificent living museum of trees and shrubs, they answer the puropses of accessibility, unobtrusiveness, and simplicity.

J. F. Foster, Chicago, Ill., in American Park Superintendents' Bulletin

Park roads are regrettable necessities. Do not multiply the necessities for them by introducing extraneous attractions into the park. Simplicity is always beautiful, and above all things the simplicity of nature. Let your park be a piece of country, your roads only ways to reach its beauties, mostly roads through thick woods, closely planted upon both sides hidden. There are open roads enough in the approachng boulevards. There let the peacocks of fashion who drive only to be seen disport themselves. Make the roads in the parks the quiet peaceful ways of the lovers of nature, and those who travel them will find themselves approaching near and nearer to the truest pleasure of life — the full appreciation and enjoyment of the wonderful beauty which nature has so lavishly strewn all about us.

OILED ROADS

J. W. Duncan, Boston, in American Park Superintendents' Bulletin

During the season of 1903, an experiment with oil was tried on a section of the Arborway near Franklin Park. The first work done was to spread a layer of coarse sand or fine gravel over the hard surface. Stone dust was also used on one section, and before sprinkling with oil the whole was gone over with the steam roller to make a smooth surface. The length of roadway sprinkled was 840 feet, the width of roadway being 34 feet between the gutters. Twenty-five barrels of oil were used, or nearly 1½ gallons per linear foot of roadway. The oil was heated almost to the boiling point in a large kettle, to make it run easily, and sprinkled with common watering pots. The total cost of this experiment was $130 for oil, gravel, and labor. The section covered with stone dust did not prove so satisfactory as that covered with coarse sand to a depth, say ¾ inch. This work was done the first week in September, and no sprinkling was done on this section of roadway till almost the end of July: but, of course, for about three months in winter it was covered with snow. During all the fall, spring, and early summer the dust was laid perfectly. The sand on the surface of the roadway formed a fine even cushion, which was very pleasant to drive on.

The odor, especially night and morning, was very objectionable, and a great difference in the growth of the shrubbery, especially roses, immediately along the side of the driveway was noticeable; whether from the oil or other causes, the summer growth was not so strong and healthy as on other sections of the parkway.

Watering was commenced again on this section about the end of July, but for two months had to be done very lightly as compared with the other parkways. The period over which this experiment lasted extended seven months. As before mentioned, the total cost was $130. The cost of watering during the same period would have been about $100. The advantage of the oil treatment, however, is that the dust is laid perfectly day and night, while under ordinary sprinkling with water, even under the most careful management, there are times when the dust cannot be controlled. Again, had the oil experiment been continued, the succeeding treatments would have cost very much less, as not nearly so much oil would have been necessary, and the gravel was still in good condition, so that the cost of oiling for the second season would have been perhaps only one-quarter that of the first.

GROUP OF CONIFERS



Herewith is a view of a group of small spruces as planted on the grounds of J. M. Moon of the William H. Moon Company at Glenwood Nurseries, Morrisville, Pa. These small evergeens used in this manner add a stately dignity to residential grounds, impossible with any other material and the demand for such is far in excess of the supply. The Colorado blue spruce seen on the left of the group holds its distinction in all kinds of company, at all seasons of the year. At the prices at which they are now offered, they are within the reach of everybody.

FOREST PLANTING IN NEW HAMPSHIRE

From Report of Forest Conditions of Northern New Hampshire, by Alfred K. Chittenden, M.F.

Forest planting upon wholly denuded lands, or to supplement incomplete natural reproduction, is already profitable in New Hampshire, when land can be protected from fire. The best species for planting are white pine, Norway pine and Norway spruce. The white and Norway pine are adapted to the sandy soils, the Norway spruce to the loamy soils. The latter is preferable to the red spruce, because it grows more rapidly, makes a larger tree, and yields the same quality of timber. At least 1200 trees should be planted to the acre, which makes a spacing of about six feet each way. The expense of planting, including cost of plants, should not exceed $8 per acre when the plants are grown from seed or purchased at cost.

It is recommended that the State establish and maintain a forest nursery, under the direction of the State forester, and distribute seedlings and forest tree seeds at cost to farmers and others who may desire to plant. By offering encouragement in this way large areas of waste land suitable only for forest can be rendered productive.

"The life of the husbandman — a life fed by the bounty of earth and sweetened by the airs of heaven."

DOUGLAS JERROLD.

Some of Burbank's Achievements

Edwin Lonsdale before the Florists' Club of Philadelphia, May 2, 1905

Mr. President and Fellow-Members: Very entertaining articles are being prepared for the magazines these days, one of the most elaborate being by W. S. Harwood, which appeared in the March and April numbers of the *Century Magazine*. There is no doubt that Mr. Harwood is correct when he says: "To-day Mr. Burbank has become the foremost man in the world in the production of new and interesting forms of fruits, trees, flowers, vegetables, grasses and nuts."

Mr. Burbank, when he had made up his mind to make the improvements of vegetation his life work, had the good judgment to make California his home and the scenes of his world-famous experiments and triumphs.

"His recognition has been tardy, but last year more than six thousand men, embracing among them the very pick and flower of the scientific life of two hemispheres, made the pilgrimage to his Santa Rosa home to study the lines of his investigations, to see with their own eyes many things which their scientific minds could not accept as truth without visual demonstration, and to learn some details of the supreme results achieved. During the year, thirty thousand letters were received, coming from every quarter of the globe, asking for more light upon his work. The Carnegie Institution has recognized his worth in a substantial manner, by granting the sum of $100,000 to be made available in sums of $10,000 each year for ten years." This will be a great aid in carrying out the many experiments he now has on hand, and it is to be hoped they will be carried to successful conclusions.

What apparently at this time will in the future be considered Burbank's greatest achievement is the development of the thornless cactus, which is botanically an opuntia and commonly called the "Prickly Pear." For a period of over ten years he has worked with the utmost persistence and skill until at last he has developed a cactus plant that will convert the desert into a garden. "He has not only made it thornless," so says Mr. Harwood, "but he has made it adaptable to any climate." This we can readily believe, "as it will thrive on the hot desert and it will grow with marvelous fecundity when irrigated or when planted in rich soil." Its great value as an article of food for cattle will in truth make the desert smile.

The tenacity of this class of plants is well known to all plantsmen. "And some of the fruit of this prickless pear is possessed of a flavor hitherto unknown, having a combination of the flavors of half a dozen fruits variously suggesting pineapple, melon, peach, apricot, but yet without definition or identification. It is full of nutrients, too; in fact, it has been found that the natives of some southern climes virtually live upon the fruit of one of the crude parents of this wonderful plant. It is stated that one of the more highly developed plants, grown to almost gigantic stature in three years, has over six hundred pounds of nutritious food for man and beast upon it, and as one looks upon this one plant and thinks of the vast multiplication of it now possible, you begin to realize of what is likely to come to pass in the reclamation of the waste places of the earth.

This cactus now becomes a definite practical food. It may be eaten raw or cooked. The leaves may be put up and preserved as are ginger or melon rinds or citrus. They may be eaten in a variety of ways, while the fruit itself will prove one of the delicacies of the market.

The new variety preserves its type, never reverting. There is apparently no disposition to go back to the original.

Mr. Burbank has done much among the poppies. He has succeeded in crossing an annual with a perennial, and some of the flowers are said to be ten inches across. The species operated upon were the Oriental Poppy, Papaver orientalis as pollen parent, and the opium variety (P. somniferum) as seed parent.

Another of his achievements was the creation of the fastest growing tree in the temperate zones of the world — a walnut which in thirteen years has grown to six times the size that an average walnut has grown in twenty-eight years. The shells of this walnut were bred so thin that birds could pick holes in them, so that it became necessary to reverse the prosess, breeding back until the shells have become of the requisite thickness.

The plum-cot, another achievement, is a combination of the common American plum, a Japanese plum, and the common apricot, producing a fruit, unknown to the world before, with a delicious flavor unlike either of its ancestors, and plentiful in nutrients, and beautiful in color. Incidentally, the plum-cot with the primus berry, disproves the dictum of scientists that new species cannot be produced by man.

Amaryllis blooms ten inches in diameter of excellent coloring are among his products; also new types of gladiolus, some with the flowers set all around the stalk and not all on one side as is the case with the original well-known type, but whether they will rank with the new type raised by Groff, can only be determined by a comparative test. A dahlia with the perfume of the magnolia is another of his achievements.

The Shasta daisy and its varieties when first sent out seemed to be a disappointment, but now it appears to be giving better satisfaction. Mr. Harwood apparently confounds the English daisy with the common field daisy when he says the "tiny field daisy." It is not so very tiny, whereas the English daisy may properly be called tiny, and botanically one of the parents of the Shasta daisy is a chrysanthemum C. leucantheum —whereas the English daisy is a Bellis.

Another creation under way is the Pomato, which may be called a tomato growing upon a potato. This has been done in days gone by, by others by grafting a tomato upon a potato, but Mr. Burbank's pomato is being produced presumably through the more legitimate way of crossing and seeding, and selection.

Great things are expected from Mr. Burbank's improvement of the Australian Star Flower. Seed of the original has been offered by most of the leading seedsmen this year. It is bright pink in color and fragrant, and the flowers are said to retain their form and coloring almost indefinitely and are recommended to be used on ladies' hats in millinery.

A new type of larkspur he has established, much enlarged, with a delicious odor, and the color combinations are far finer than the common larkspur. It would be interesting and instructive to see these and some of the greatly improved European forms grown side by side.

In referring to the white blackberry, it is said by Mr. Harwood that Mr. Burbank chose one plant out of sixty-five thousand and this was the Iceberg blackberry. It would be interesting to know whether Mr. Burbank made an effort to produce a white blackberry, or was it what is called a sport. It appears to me that the Iceberg blackberry was an accident, for I do not know of anything in that line to work on that would be likely to give the results as they are.

Mr. Burbank has accomplished great things with the plum; mostly all of those so-called Japanese are the results of his manipulations. He has now three hundred thousand distinct varieties of plums; sixty thousand peaches and nectarines, five to six thousand almonds, two thousand cherries, as many pears, one thousand grapes, three thousand apples, twelve hundred quinces, five thousand walnuts, same number of chestnuts, with many thousands of other fruits, flowers, and vegetables, which he is working on to improve.

Mr. Harwood relates very entertainingly how Mr. Burbank was walking one summer evening through his experimental grounds past a bank of verbenas — a scentless sort which he was breeding up into a finer variety. On this occasion he was attracted by a faint, sweet odor from the bed; he tried to locate the flowers emitting the perfume, but was unable to do so. A year later, passing by the bed, he was again attracted by the odor which suggested that of trailing arbutus.

"With his characteristic patience he went over the plants one by one until, at last, he found the one that had the elusive odor. It was at once isolated, and its seeds were saved and planted with great care. Succeeding sets of seeds were planted, year by year the plants were challenged. The scent became more and more pronounced, continuing in its likeness to the arbutus, and becoming, at last, greatly intensified."

No doubt at all this is quite true, for it is no new thing to have fragrant verbena flowers. In the days when verbenas were more generally popular than they now are, some of the cultivated varieties at that time produced flowers with a decided odor, and in the evening it was when these flowers gave off their scent, which was truly suggestive of the trailing arbutus. I have not grown verbenas for many years, but as I remember them, some varieties were absolutely without fragrance, whereas others were decidedly sweet. While the color may not have influenced the odor, there were colors which were more likely to be scented than others. The scarlets and bright pinks were generally scentless, while the purples and whites most often had the arbutus-like smell. And again, if my memory serves correctly, there were many variations from that rule.

It will be remembered that Mr. Harwood, in introducing the verbena subject, stated that Mr. Burbank passed a bank of verbenas — a scentless variety — from which we might infer that he knew there were other varieties which were fragrant, but he did not say so; hence I have taken the liberty of mentioning the fact that there are many varieties already in cultivation which are quite fragrant.

Mr. Burbank has promised us a blue rose, "when he has time." I have heard it said by some florists that at certain periods of the year there are too many blue roses already. Let us hope that Mr. Burbank has in his mind's eye, when he has time, a blue rose, with the typical forget-me-not blue or with the hue of the Delphinium formosum, for nothing short of either of the two shades of blue, or something intermediate between them, will satisfy us.

Mr. Burbank has increased the size of the flower of a sedum, but which of the numerous species and varieties in cultivation is not stated. He has raised a pampas-grass with pink plumes, but what is the shade of pink? Is it the color of carnation Enchantress, Scott or Lawson? It would be interesting to know.

Great things are expected from a new

hybrid tobacco, which is stated to be much thriftier and better adapted to colder climates and finer in flavor than the best tobacco now grown.

Some statements are made to the effect that thirty-six apples, no two alike, were all grown from the seed of one apple. There is nothing unusual about that. It would be strange if the results had proven to be otherwise. Mr. Harwood evidently is not very familiar with grafting fruit trees, for he says: "In grafting apples, the same tree is used often year in and year out, as many as four hundred apples growing on the tree at the same time." What is the idea he wished to convey in that statement? Four hundred would not be a large crop of apples on a large tree. Let's go on further. "Sometimes other fruits are grafted upon the tree, so that there may be five hundred varieties of fruit growing at once from the parent tree." Great Scott! I wish Mr. Harwood had taken the time to name a few of the "other fruits" grafted on the parent tree. I believe it is possible to have five hundred varieties of apples on one tree if there were that number of twigs to graft upon and that number of varieties to graft. The so-called parent-tree could only be a foster parent at best.

The elæagnus fruit has long been used for preserving, and it is good news to know that Mr. Burbank has added this to his other triumphs by improving same. The English walnut has had the bitter skin bred out of it, and the size of the kernel and the whiteness thereof have been increased. Good news.

Here is a paragraph hard to understand: "In passing, it may be noted here that Mr. Burbank has accomplished that which Darwin hinted at, but accepted with reservations — the grafting of one tree upon another and at the same time the transformation of the tree without fertilization, the accomplishment of a complete cross by the graft. He took a French plum unknown in America, and grafted it upon a Japanese plum. The graft bore no bloom, but the tree was recreated, if you will, yes, but will we? Its seedlings took on a wholly new life and became hybrids, its vital essence was changed through the medium of the graft."

There is nothing at all difficult in grafting a French plum on a Japanese plum, even if the French plum was unknown in America. Here is something hard to understand. "The graft bore no bloom." Yet its seedlings took on a wholly new life and became hybrids! Where did the seedlings come from if this new creation bore no bloom? How could there be seedlings if there was no seed? There could be no seed if there was no bloom. If there were no petals, there must have been a pistil and stamens or there could have been no fruit, no seeds, and consequently no seedlings. Something very important has been left out in what Mr. Harwood has been trying to elucidate. It is possible that the combination of the saps of the French and Japanese plums has caused the resultant tree to produce a shoot that was different from the stock in this case (the Japanese plum), and the scion of the French plum, the French plum which was unknown in America, and this shoot would be called, generally speaking among ourselves, a sport, and in due course this would be increased in numbers by grafting or budding or cuttings and these would produce the flowers and the fruits and the seeds and eventually the seedlings, and that, as it appears to me, is the only way the seedlings would come. If this is what Mr. Harwood means, here is a case where a plum tree has been induced to sport through grafting. I read somewhere sometime ago that the white form of the H. R. Rose Baroness Rothschild called Mabel Morrison was the result of the tea rose Niphetos being budded on the Rothschild, causing it to break and produce a shoot that bore white flowers; hence a sport, or, as Darwin would say, "a bud variation."

Another change Mr. Burkank has made in flowers, but this was not mentioned by Mr. Harwood in his *Century Magazine* articles, was in the aquilegia, commonly called the columbine. By repeated selection he has fixed a type with the spurs eliminated. I must own up that I have not seen any of the flowers of these new types, but I confess I am prejudiced against this new innovation, because the long spurs appeared to me always to add greatly to the grace of the unique flowers of the columbine. Let us hope that this is a case where they have to be seen to be appreciated. It however goes to show what may be accomplished by persistent, well-directed effort with a worthy ideal to look up to and aim for.

Many of the achievements with which Mr. Burbank has been credited have been done by others. This is not said to detract from the wonderful work he has done, but to show how slow the people have been in coming to a realization of what has been going on among horticulturists, florists and gardeners in the improvements in plant life. For instance, when the Chinese primrose was introduced (about the year 1820 I think) the flowers were not larger than a nickel and a poor washed-out pink in color; now they are larger than a silver dollar, and have been so for over twenty years, both single and double flower, and they come in nearly all the colors of the rainbow. Anyway, we can have them in the national colors of red, white, and blue, with numerous intermediate shades. All know what has been done with the carnation within the past ten years, and with these important improvements in flowers, so far, Burbank has had nothing to do.

"Mr. Burbank has greatly increased the geranium (zonal pelargonium is meant, I believe) in size and at the same time has made it far more brilliant in color." This statement is most interesting, or at least as Horace Greely would say, "interesting if true." Illustrations of an old variety are given and the new one enlarged in form illustrated for comparison, but it is questionable whether Mr. Burbank's zonales are any larger than are those to be found in an up-to-date florist's establishment, and if he has any varieties more brilliant scarlet in color than an old French variety named Le Pilote and a Philadelphia variety known as Dennison's Seedling, I know most of us would not only like to see such an one, but we would also like to own at least one.

But all honor to Mr. Burbank and all honor to Mr. Harwood and those who have eventually recognized the good work he is doing and the hope for his still greater achievements, and all honor to the newspapers and magazines which have spread broadcast the knowledge of the possibilities of improvements in all vegetation, and here's hoping the same may awake some kindred spirits and kindle an unquenchable enthusiasm to aid Burbank in the grand work now going on.

A pure white Dendrobium phalænopsis is the prize which Julius Roehrs Company has shook out of an importation of inferior-looking plants. This is, so far as known, the second plant only in this country of that variety.

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PHILADELPHIA NEWS NOTES

August Muller will add one new greenhouse in July to his already extensive range.

Miss Baker of Media has resumed possession of her greenhouse establishment. The renting out proposition was not a success.

Julius Wolff, Jr., will build a new greenhouse this summer, especially for the growing of orchids of which he has quite a collection of the commercial varieties.

The pipe warehouse of C. J. Rainear & Co. at 518 Arch street, was visited by fire recently; considerable damage was done, but same was fully covered by insurance.

William J. Young has sold his greenhouse property at School street and Pulaski avenue to his son William J., Jr. A handsome new salesroom fronting on School street is a feature of the new ownership.

F. W. Bornemann is the new owner of the Rementer greenhouses at Lansdowne. He is superintendent of the Arlington cemetery. The general opinion seems to be that Mr. Bornemann got a big bargain at the sale.

H. Bayersdorfer sails on the *Deutschland*, May 25, on his annual trip through the producing centers in Europe. His firm is noted for its up-to-date introductions in jardinieres, baskets, and other florists' supplies and this trip will be devoted mainly to looking up novelties in that line.

William Berger is what President Roosevelt would call a credit to his country. He has raised a family of seven sons and three daughters, six of the sons being in the florist business. The old homestead on Queen street is run by the father; a retail store at Main street and Chelten avenue is operated by four of the sons, while the other two boys run the commission house of Berger Bros. on Filbert street. Mr. and Mrs. Berger, Sr., will soon celebrate their thirty-eighth wedding anniversary.

THE STRIKE SITUATION IN CHICAGO

The following important card has been issued:

The Chicago Wholesale Florists' Association which organized to facilitate the shipping orders during the teamsters' strike period, guarantees prompt delivery in time for all out-going trains. The cut-flower supply in Chicago is fully equal to any demand, and every concern is now filling all orders. F. F. Benthey, president; C. M. Dickinson, treasurer; J. Risch, secretary; Fred Lautenschlager, general manager of transportation.

BUSINESS CHANGES

F. Albert, one of Rochester's (N. Y.) leading florists, has discontinued the retail business, and closed his store on East avenue, last Tuesday.

Charles H. Wilson, 606 Jennings Avenue, Cleveland, O., has purchased the fixtures of the Cleveland Floral Co., which has gone out of business.

Strike not Interfering

WITH US IN THE LEAST

We have plenty of stock and all orders are being filled with our usual promptness.

Dont fail to send your orders to us.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and Carnations A Specialty.....

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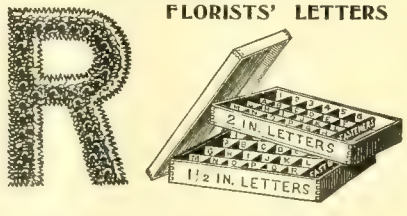
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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending May 6 1905			First Half of Week beginning May 8 1905		
ROSES						
Am. Beauty, fan. and sp	10.00	to	20.00	10.00	to	20.00
" extra	6.00	to	10.00	6.00	to	10.00
" No. 1	2.00	to	8.00	2.00	to	8.00
" Lower grades	.50	to	2.00	.50	to	2.00
Bride & Maid, fan. and sp	5.00	to	6.00	5.00	to	6.00
" " extra	3.00	to	5.00	3.00	to	5.00
" " No. 1 and Lower gr.	.50	to	3.00	.50	to	3.00
Liberty, fan. and sp.	10.00	to	20.00	10.00	to	20.00
" extra	5.00	to	8.00	5.00	to	8.00
" No. 1	2.00	to	4.00	2.00	to	4.00
Meteor	1.00	to	5.00	1.00	to	5.00
Jacq	2.00	to	10.00	2.00	to	10.00
Brunner	3.00	to	20.00	3.00	to	20.00
Carnot and Kaiserin	.50	to	6.00	.50	to	6.00
Golden Gate, Ivory, Chatenay — Best	6.00	to	8.00	6.00	to	8.00
Golden Gate, Ivory, Chatenay — Medium	2.00	to	4.00	2.00	to	4.00
Golden Gate, Ivory, Chatenay — Culls	.75	to	1.00	.75	to	1.00
CARNATIONS						
Fancy Class	3.00	to	4.00	3.00	to	4.00
General Class	.75	to	2.50	.75	to	2.50
ORCHIDS						
Cattleyas	60.00	to	75.00	60.00	to	75.00
Cypripediums	.....	to	.....	.....	to	.....
BULBOUS						
Lilies	2.00	to	4.00	2.00	to	4.00
Lily of the Valley	1.00	to	3.00	1.00	to	3.00
Stocks	.....	to	.....	.....	to	.....
Daffodils	.....	to	.....	.....	to	.....
Tulips	1.00	to	3.00	1.00	to	3.00
Callas	3.00	to	5.00	3.00	to	5.00
MISCELLANEOUS						
Mignonette	.50	to	2.00	.50	to	2.00
Sweet Peas	.25	to	.75	.25	to	.75
Adiantum Cuneatum	.50	to	.75	.50	to	.75
" Croweanum	1.50	to	2.00	1.50	to	2.00
" Farleyense	10.00	to	15.00	10.00	to	15.00
Smilax	10.00	to	20.00	10.00	to	20.00
Asparagus Plumosus, strings	20.00	to	50.00	20.00	to	50.00
" " bunches	20.00	to	25.00	20.00	to	25.00
" Sprengeri "	15.00	to	25.00	15.00	to	25.00
Gardenias	5.00	to	15.00	5.00	to	15.00
Lilacs, bunches	3.00	to	25.00	3.00	to	25.00

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

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50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

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FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
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Bonnot Bros.
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Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
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Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation
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To be disseminated 1906. Also a complete line of choicest flowers.
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Flowers bought on order at Market Rates and carefully delivered
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COOGAN BUILDING 1 Flight
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YOUNG & NUGENT
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CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

Our Flowers
ARE the product of establishments that CAN BE DEPENDED UPON to supply bloom of unexcelled quality EVERY DAY IN THE YEAR. We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
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Established 1887 Tel. 167 Madison Sq.
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Always Reliable for FLOWERS CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
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JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
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In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI May 9	BALTIMORE May 10	BUFFALO May 10	PITTSBURG May 9
ROSES				
Am. Beauty, fan. and sp.	25.00 to 35.00	25.00 to 30.00	20.00 to 25.00	..... to 20.00
" extra	..... to 15.00	..... to	15.00 to 20.00	..... to 15.00
" No. 1	10.00 to 12.50	..... to	10.00 to 15.00	6.00 to 8.00
" Lower grades	6.00 to 8.00	..... to	2.00 to 8.00	2.00 to 4.00
Bride & 'Maid, fan and sp.	5.00 to 6.00	..... to 7.00	6.00 to 8.00	..... to 8.00
" " extra	..... to 4.00	..... to 6.00	4.00 to 6.00	..... to 6.00
" " No. 1 and Lower gr.	2.00 to 3.00	..... to 5.00	2.00 to 4.00	2.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	8.00 to 10.00	..... to 12.00
" extra	4.00 to 5.00	..... to	6.00 to 8.00	..... to 10.00
" No. 1	..... to 3.00	..... to	3.00 to 6.00	..... to 6.00
Meteor	..... to	..... to	3.00 to 6.00	4.00 to 6.00
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	4.00 to 15.00
Carnot and Kaiserin	..... to	..... to	4.00 to 8.00	4.00 to 8.00
Golden Gate) Best	..... to 6.00	..... to 8.00	5.00 to 6.00	..... to 8.00
Ivory) Medium	..... to 4.00	..... to 7.00	4.00 to 5.00	..... to 6.00
Chatenay) Culls	2.00 to 3.00	..... to 5.00	2.00 to 3.00	..... to 3.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to 2.50	2.00 to 3.00	..... to 3.00
General Class	1.00 to 2.00	..... to 1.50	.75 to 1.50	1.00 to 2.00
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	..... to 10.00	..... to	6.00 to 10.00	4.00 to 8.00
Lily of the Valley	..... to 3.00	..... to	2.00 to 4.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	1.00 to 2.00	..... to .....
Tulips	2.00 to 3.00	..... to	1.00 to 3.00	..... to .....
Callas	..... to	..... to	6.00 to 8.00	6.00 to 8.00
MISCELLANEOUS				
Mignonette	..... to	..... to	2.00 to 4.00	2.00 to 3.00
Sweet Peas	.50 to .75	.60 to .75	.40 to .75	.20 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	10.00 to 12.00	..... to .....
Smilax	..... to	20.00 to 25.00	15.00 to 20.00	10.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to 50.00	50.00 to 60.00	25.00 to 50.00
" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	25.00 to 40.00
" Sprengeri "	25.00 to	25.00 to	25.00 to 50.00	25.00 to 50.00
Gardenias	..... to	..... to	..... to	6.00 to 8.00
Lilac, bunches	..... to	..... to	50.00 to 75.00	10.00 to 15.00

CUT-FLOWER MARKET REPORTS

BOSTON Low prices prevail all through the cut-flower list and all other symptoms of a very quiet market are in evidence. Roses are not badly overstocked, so they clean up fairly well. Carnations have to depend on the street merchant to keep the surplus down, which he does by singing the song of "twelve for a dime" on all the populous thoroughfares. Lilies are in bad shape, nobody wanting them. Bulbous stock is in the outdoor class and consequently common and cheap. Sweet peas are very plentiful. Lily of the valley in moderate call.

BUFFALO Trade opened on Monday with a larger supply of all flowers than could be disposed of, therefore everything took a drop in price. Carnation alone held firm till Thursday, when a sudden break took effect. Lilies can hardly be disposed of at low prices. Outdoor bulb stock has made its appearance in quantity and does not move as fast as desired.

Since violet season is over, sweet peas are in more demand and are selling rapidly at fair prices. As for roses, carnations, mignonette, lily of the valley, etc., a good supply is being received daily and trade continuing fair.

CHICAGO There is a generally steady tone to the cut-flower trade. The receipts have grown smaller, and under ordinary conditions, would have been considered a light supply, but in the present state of trade, ample for the demand. The fact is that the market here has been in very bad shape and the local requirements have been affected by the great teamsters' strike. This was well illustrated in this week's trade.

The rose supply is a tremendous one, although good quality predominates. Carnations continue plentiful. Lilies are a drug. An abundance of out-door stock is seen — peonies taking the lead — and are now to be had in all colors. Parrot tulips "Stollery's special," and Narcissus Emperor constitute the bulb supply and a good demand is noticed. The supply of outdoor lilac has been very light on account of labor trouble in Chicago, express companies refusing perishable goods at point of shipment unless an order releasing the carrier from all claims is issued by shipper and receiver.

All out-of-town orders are generously filled and schedule delivery is guaranteed by the Wholesale Florists' Association which organized to facilitate shipping orders during the strike period. F. F. Benthey is president, C. M. Dickinson, treasurer, J. Risch, secretary, and Fred Lautenschlager, general manager of transportation.

CINCINNATI Business for the past week was very slow. Stock is coming in very heavily in all lines, especially Harisii and Longiflorum lillies. These varieties have moved slowly and at a price which hardly justified the growers to cut them. Roses and carnations are arriving in large quantities and moving slowly. The outlook for cut stock for June is anything but satisfactory, with the present conditions of the market.

NEW YORK The somewhat improved condition of the cut-flower market, at the beginning of last week slowed down to dullness during the latter part with lower prices generally prevailing. This week the inactivity remains and there is no business worth making special note of in any line. American Beauty roses of the first class sell, also the best of other varieties, but the general quality is getting poorer. Bride and Bridesmaid sell better than many of the so-called novelties such as Killarney, Deegan, Carnot, and Testout, quality being equal. Lily of the valley is overstocked and dealers are cutting figures. Carnations, while rather slow, have experienced no marked cut in prices yet.

PHILADELPHIA Business was very sluggish last week and stock very plentiful — a combination which is always sufficient to give the distributor a headache. There was considerable funeral work, but weddings and other functions were few and far between. Beauties went better than some of the other roses although very plentiful. A few Chatenays made their appearance for the first time this season and sold fairly well. Carnations plentiful and prices very low. A few violets coming in yet, but demand is almost nil. Cattleyas are fine. Demand for same is only fair, but will undoubtedly improve as commencement season approaches, and June weddings. Lily of the valley in good supply and up to standard quality; goes better than the general run of stock. Plenty of lilac, dogwood, apple, Judas, and other outdoor blossoms now to be had, and being extensively used by the trade, which of course has a tendency to cut out sales of other stock.

It is expected there will be plenty of peonies and other out-door subjects for Decoration Day in this latitude. Some of the wholesalers wish it otherwise as they would rather sell roses and carnations. Easier to handle and more money in them. Growers should be careful to cut peonies before they are fully open. They open out purer and keep longer than if left to open full on the plant.

CUT-FLOWER NOVELTIES IN CHICAGO

Spanish iris at Poehlmann Bros. Chicago's favorite peony "Old Rose" has put in its appearance at Kennicott's. McKeller has Catteleya Mossiæ. Pansy "Lord Beaconsfield" is offered in large quantities by the E. F. Winterson Co. Rose Rosalind Orr English can be had in limited quantities at Peter Reinberg's. "Wietor's Red" a grand carnation seedling grown by Wietor Bros. is at present commanding the attention of the leading carnation experts. Salopian is the most popular sweet pea obtained hereabouts.

OF IMPORTANCE TO VEGETARIANS

The secretary of a rural English society for the propagation and advancement of agriculture the other day received this letter: "Sir — I particklly wish the satiety to be called to consider the case what follows, as I think it mite be maid Tranxtionable in the next Reports. My wif had Tombd Cat that dyd. Being a torture shell and a grate favrit, we had Him berried in the Guardian and for the sake of the enrichment of the mould I had the carks deposited under the roots of a Gotsberry Bush (The Frute being up till then of a smooth kind). But next Sesons Frute, after the Cat was berried, the Gosberries was all hairy, and more Remarkable, the Catpillers of the same Bush was Al of the same hairy Description."

Here is a method by which we may extract the virture of the animal kind. The animals live, they have their day. In the end we have their substance with the assurance that we come honestly by it. We have not caused the animals a single pang or a tragic death. And we might as well have their substance as let it waste away to nothing. No; here is economy, here is poverty. How much more pleasure in the eating of a peach if we know that its down has come from the beautiful swan over whose octogenarian grave the fair fruit has ripened — *Boston Transcript.*

INTERNATIONAL PROTECTION OF TRADE-MARKS

From the Report of United States Consul Haynes, Rouen, France

The protection of trade-marks is of such importance that several countries, France among them, have formed an international service of registration. The institution has its sittings at Berne, in the offices of the Industrial Protection Union. Its object is to give the same protection in all of the contracting countries as is given to the owner of the mark in his own country. The contracting countries are Belgium, Brazil, Spain, France, Italy, Netherlands, Portugal, Switzerland, and Tunis.

A decree dated May 20, 1903, stipulates that every owner of a trade-mark regularly registered in France who desires that his work be protected in the contracting States, or those that may hereafter subscribe, must pay into the Central Receiving Bank of the Seine, or, in the departments into the bank of the "Général Trésoriers-Payeurs," the sum of 25 francs ($4.82). The payment of this sum, which should be addressed to "l'Office National de la Propriété Industrielle," 292 rue St. Martin, Paris, should be accompanied by the following précis: (1) A request to obtain the registry of the mark at the international office at Berne, accompanied by the name, profession, and address of the applicant and the date and number of registration of the mark in France; (2) three copies of the mark, and in case of colors four copies, designating the exact color; (3) a stereotype plate not less than 45 millimeters (1.77 inches) reproducing exactly the mark (this plate will be filed in the International Bureau); (4) the receipt for a post office money-order to the bureau at Berne for 100 francs ($19.30) for a single mark, and for 50 francs ($9.65) for any thereafter; (5) a power of attorney duly registered if the demand is made through another party.

A fulfillment of these formalities procures protection in the nine countries mentioned, as well as in all other States that may later adhere to the programme. The duration of protection is twenty years, a renewal being allowed by the fulfillment of all the conditions as in the first instance.

For the first mark registered in France alone 125 francs ($24.13) must be paid, and 75 francs ($14.48) for each one thereafter. In all the other contracting States named for each trade-mark registered the cost is 240 francs ($46.32). This latter sum embraces the official cost, exclusive of the expenses of application, authentication, translation, etc.

It will be seen that the services of the bureau are of considerable value both as to price and simplicity, not to mention the great advantages to be derived. All information is furnished gratis by the Bureau International de la Propriété Industrielle, Berne, Switzerland.

SEED TRADE

The counter trade at Dreer's, Michell's, and Johnson & Stokes, the three principal counter trade stores in Philadelphia, is reported as still brisk, although the orders now are much smaller. Customers are as numerous as two months ago and they are even harder to satisfy, are stocks as much depleted.

SALE OF BOILER TUBES

Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3 8 inch to 14 inch.
Boiler Tubes, sizes from 1 3-4 to 8 inch.
50 Horizontal Tubular Boilers from 10 to 200 H P.
1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.
Lumber, Garden Hose, Etc.

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THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in Soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour. Send $1.00 for trial sack.

A. B. CLAY, Distributor

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Issued May 2, 1905

788,618. Fruit Grader and Separator. Robert M. Widney, San Francisco, Cal.

788,665. Potato Seeder. Richard Michell, East Selkirk, Can.

788,667. Wheeled Hand-Rake. Marion W. McCann, Rushville, Ind., assignor to McCann-Cook Case Co., Rushville, Ind.

788,717. Planter. Walter V. Hart, Valparaiso, Ind.

788,745. Celery-Digger. Luther M. Yale, Cedarfalls, Ia.

788,883. Portable Fruit-Gathering Platform. William V. Brown, Berwick, Can., assignor of one-half to Daniel M. Owen, Lunenburg, N. S., Can.

788,989. Vegetable or Fruit Parer and Slicer. Albert L. Allen, Pittsburg, Pa.

Hammond's Slug Shot for Potato Bugs, Currant Worms, Etc.



Sold in large or small lots.

Report of a Critical Test of Hammond's Slug Shot, etc.
MADE IN 1904

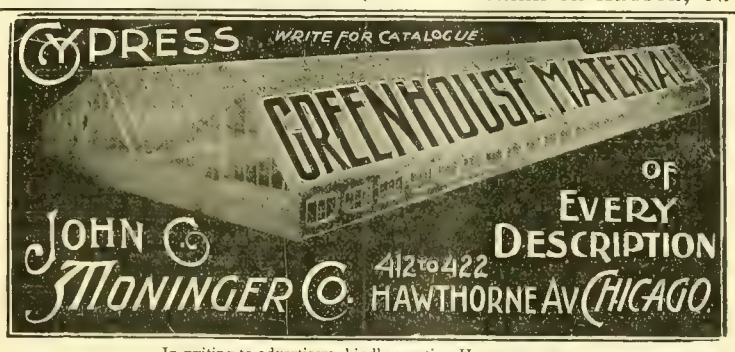
James Lawrence **EDEN TRIAL GROUNDS** J. R. Lawrence
1896
SPECIALTIES, SWEET PEAS AND POTATOES

DEAR SIR: Have been delayed in reporting on goods you sent me for trial by severe illness. SLUG SHOT was as good, and did the work it was advertised to do as well and effectively as compounds and mixtures costing double and triple the price asked for it. For potatoes it proved especially efficient. Your BORDEAUX PULP is all right, dissolves readily and minutely so it does not clog nozzles of finest sprayers. Your AMMONIATED COPPER SOLUTION saved my melon vines (musk). It was not a case of preventing blight, but of checking it after it had developed and to quite an extent. I shall be glad to use and commend your goods another season.

Yours truly, (Rev.) J. REYNARD LAWRENCE,
Nov. 21, 1904. North Middleboro, Mass

Write for Pamphlet on Bugs and Blights **Sold by Dealers and Merchants all over America**

HAMMOND'S SLUG SHOT WORKS = Fishkill-on-Hudson, N. Y.



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Are You Going.... To Build?

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. *NOT IN THE TRUST.*

Address:

George C. Watson
JUNIPER AND LOCUST STS. **Philadelphia, Penn.**

☞Remember this factory is NOT in the TRUST and has a free foot.

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CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.
Send your business direct to Washington, saves time, costs less, better service.
My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE
Illustrated monthly—Eleventh year—terms, $1. a year.

E. G. SIGGERS, 918 F ST., N. W., WASHINGTON, D. C.

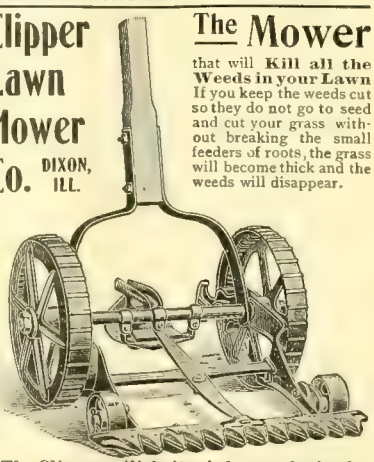
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Public Accountant and Auditor
Simple methods of correct accounting especially adapted for florists' use.
Books Balanced and Adjusted
Merchants Bank Building
28 STATE ST. - - - BOSTON
Telephone, Main 58
In writing to advertisers, mention HORTICULTURE

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will **Kill all the Weeds in your Lawn** If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No 1—12-in. Mower, $5; No. 2 15-in. Mower, $6; No. 3—18-in. Mower, $7; No 4—21-in. Mower, $8. Send draft, money order or registered letter.

In writing to advertisers, mention HORTICULTURE

You Cannot All Come to Newport
BUT YOU CAN
ADVERTISE
IN THE
Newport Horticultural Society's Premium Schedules
Two Exhibitions in the Casino
JUNE AND AUGUST
Page 6"x9" $10 00, ½ Page $5.00, ¼ Page $3.00
Mail Copy to
DAVID McINTOSH,
Ledge Road Newport, R. I.
BEFORE MAY 25th

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Gurney Heating Mfg. Co.	809
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Hail Asso.	809
Hammond J. A.	803
Hammond Paint & Slug Shot	805-809
Hart James	803
Haslam Lime Co.	805
Herendeen Mfg. Co.	809
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Hitchings & Co.	810
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Hub Eng. Co.	808
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Lager & Hurrell	788
Lang Julius	802
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Metropolitan Material Co.	809
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McKellar Charles W.	800
Millang Charles	803
Millang Frank	802
Moltz	803
Moninger J. C. & Co.	805
Moon S. C.	786
Moore, Hentz & Nash	802
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Young John	802
Young & Nugent	803
Young Thos. Jr.	801
Young A. L. & Co.	803

ADVERTISE YOUR BEDDING PLANTS

In next issue. They are wanted before Decoration Day.

NOW IS THE TIME TO SELL

Copy should reach us by Tuesday, May 16, or Wednesday, May 17 at latest.

Buyers' Directory and Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages

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Miss Kate Lock

AZALEA AMOENA.

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BULB FLOWERS.

W. H. Siebrecht. Astoria, N. Y.
Lily of the Valley and all
Bulb Flowers at Market Rates,
all season through.

CALIFORNIA PRIVET.

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Vaughan's Seed Store, Chicago and New York.
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.

2½-in. pots, $9 per doz.; 50 plants at $.60 each; 100 plants at $.50 each; 500 plants at $.45 each; 1000 plants at $.40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co Tarrytown-on-Hudson, N Y

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PANDANUS VEITCHII.

J. A. Peterson, McHenry Ave., Cincinnati, O.
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PANSIES.

100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100, $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

Geo. Sanderson & Sons, Weston, Mass.

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Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

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Crimson Rambler Roses.

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Cineraria and Primula Seeds.

Schlegel & Fottler Co.,
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Conrad Appel, Darmstadt, Germany. Estab. 1789
High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.

Hammond's Paint & Slug Shot Works,
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E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York.
Moltz, 55–57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
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Philadelphia.

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Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.

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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.

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TWEMLOW'S PUTTY.

Hammond's Slug Shot Works,
Fishkill on Hudson, N. Y.
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Greenhouse Glass

In a few weeks the American Factories go out of blast. Good Glass will soon be scarce and much Higher. We have a limited quantity on hand at present prices

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

In writing to advertisers, kindly mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers kindly mention HORTICULTURE

"One Spraying Enough"

"DISPARENE"

THE ONE INSECTICIDE that destroys all leaf-eating insects without fail; that adheres to the leaves for months undisturbed even by heavy rains, and NEVER INJURES THE MOST DELICATE FOLIAGE. Put up in sizes for 50cts., $1.00 and $4.25. Booklet free.

Also INSECT EMULSION For Green and Black Fly and Mealy Bug

"Add Water, and Spray"

BOWKER INSECTICIDE CO.

BOSTON NEW YORK CINCINNATI

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETED IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps.*

The ANGLE LAMP is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light.*

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

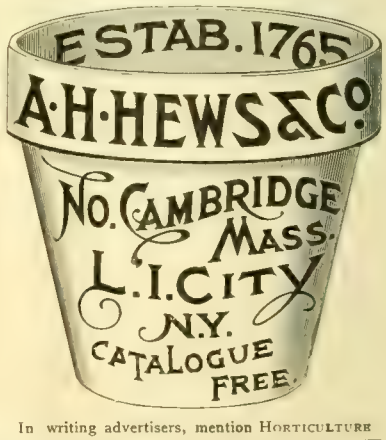
Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D.C.

In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

173 SUMMER ST., BOSTON

ILLUSTRATORS AND DESIGNERS

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GLASS Buy Now and Save Money

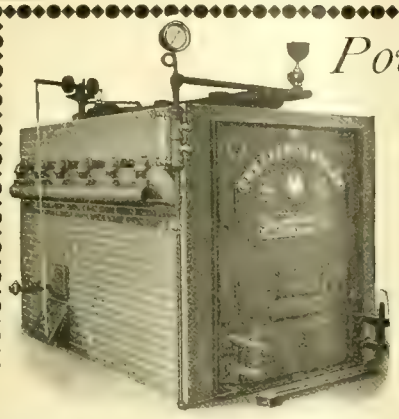
We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE



Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit
at Five different Florists' Conventions.

Have a Record of 20 Years - - - Over 25,000 Furman Boilers in Use

They are made in many styles: Round, Sectional, Brick-set,
Asbestos Covered, etc., and in sizes up to 85 horse power.
Costing from $25. to $1,000. each, Net.
Write to-day for valuable Catalogue.
Special Net Wholesale Prices to Florists. Address

The Herendeen Mfg. Co. Dept. H. T. **Geneva, N.Y.**

BRANCH OFFICES
39 Oliver St., Boston
39 Cortlandt St., New York

WESTERN REPRESENTATIVES
Edw. S. Dean, Bloomington, Ill.
E. K. Barr, La Crosse, Wis.

In writing to advertisers, kindly mention HORTICULTURE

PUMPS Rider-Ericsson. Second-hand, from $40 to up; all repairs; other makes; new; cheap.
BOILERS New and second-hand 2 second-hand steam, first-class condition, will heat 1000 sq. ft. glass, at $35.00 each.
PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¾ cts.; 1¼-in., 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.
STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in.. 1½-in., 2-in. pipe, $4.00.
PIPE CUTTERS New Saunders Pattern. No. 1 cuts ⅛-in.-1-in. pipe, $1.00. No. 2 cuts 1-in-2 in pipe, $1.30.
STILLSON WRENCHES New. 18-in., grips ¼-in 2-in. pipe, $1.05; 24-in., grips ¼-in-2½-in. pipe, $2.40. 36-in., grips ½-in 3½-in. pipe, $4.75.
PIPE VISES New. No. 1 Hinged, grips ⅛-in. 2-in. pipe, $2.25.
GARDEN HOSE New. ¾-in., guaranteed 100-lbs. pressure, 7½ cts. per ft.; ¾-in. not guaranteed, 4¾ cts. per ft.
HOTBED SASH New. Cypress, 3-ft.x6 ft., from 70 cts. up; glazed, complete, from $1.60 up. Second-hand, as good as new, at $1.25 each.
GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75. Second-hand 10x12 at $1.40 per box
10x12 } 12x12 } B. Double at $2.40.
12x14 — 12x16 — 12x20 } 14x14 — 14x16 — 14x20 } B. Double at $2.60.
16x16 — 16x18.
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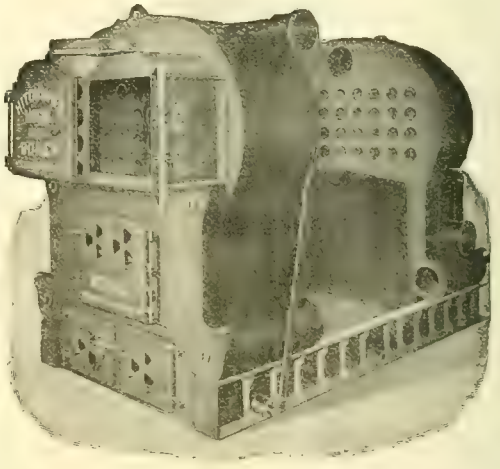


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HORTICULTURE

Vol. I MAY 20, 1905 No. 25



PÆONY, RICHARDSON SEEDLING, MILTON HILL

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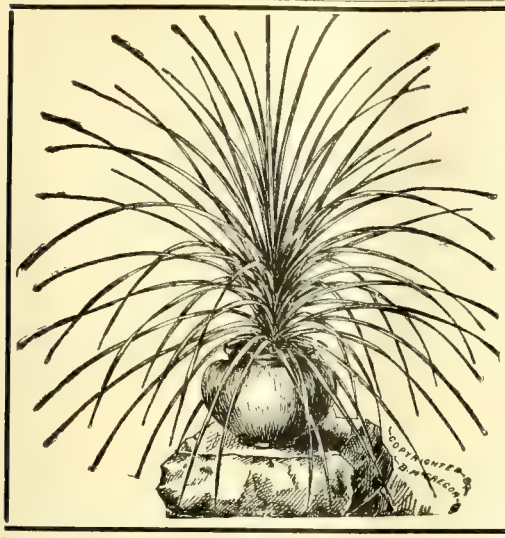
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HORTICULTURE

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Cypripedium Fairieanum

There is no member of the very large genus cypripedium that has left its impress in so marked a degree on its progeny as the subject of this notice. This is especially true in primary crosses, but also in secondary results; that is, where one or both parents of a seedling were themselves of garden origin. As complete a list of these is now being published in the "Orchid Review" as it is possible to get together, and we begin to realize how much we owe to this beautiful little plant — a pearl without price to day — for the reason that a plant cannot be purchased. We learn from the same source that there are but five small scraps in cultivation to-day, one in England and four more on the continent.

It is passing strange that for at least twenty-five years this little gem should be a constant occupant of gardens, lending itself happily and freely to the magic of the hybridizer's wand, and then — when orchid culture had reached its zenith as regards knowledge of the needs of the plants are concerned — to practically disappear from collections. Seemingly this is a paradox, but there are two possible solutions: it was in such demand by hybridizers, and by them used to such an extent, as to weaken the vitality of the individuals, and every effort also was made to increase the stock by division, a process that very few orchids submit to as did C. insigne Sanderæ, consequently the plants were killed by attention of the wrong kind.

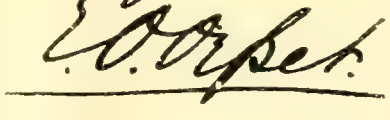
It is a well-known fact that plants of this beautiful cypripede were extant in this country and also that they thrived vigorously. During the time Pitcher & Manda were dealing in and raising orchids they possessed plants, for they raised at least three crosses that had C. Fairieanum for a parent — C. × Edwardii and C. × Constableanum — both of which were new to science, and a lot of C. × Niobe. Another cross was raised at North Easton, Mass., and was named C. × Mrs. F. L. Ames, this now being known as C. × Amesiæ.

C. Fairieanum was also splendidly grown by the late Mr. Hill, who had charge of the then famous Brewer collection at Newport, R. I., for he once offered to give a plant to a visitor that had eight growths; the visitor was a hybridist too, who well knew the value of the plant as a parent. An offer like that to-day, if it were made from the opposite side of the globe, would send many emissaries hot foot in its wake, each with a good round sum as an equivalent.

Doubtless there are many other facts regarding this lost orchid that could be gleaned concerning its history in the United States and many would be glad to learn of them now that the history of the plant is being tabulated, and the editor of Horticulture will gladly give space for their publication.

We say "lost orchid," for such seemingly it is at the present time, but we may awaken some morning to find our "Gardeners' Chronicle" at the breakfast table containing the news of its re-discovery in some recently adjusted corner of British India and then the scramble will begin, for it is exceedingly improbable that more than a few plants will be sent home, at least in the first importation.

Equally remarkable things have happened in recent years. It is not so long since I was admiring an almost priceless plant of the long-lost cattleya labiata, in the H. H. Hunnewell gardens, which was then in bloom, and well remember with what pride the late Mr. Harris pointed it out. In just a little over a year later, thousands of this same plant were offered at auction in New York, and remained unsold for the lack of bidders; plenty were sold at twenty-five cents a plant and some of these are in the charge of the writer now.



South American Horticulture

RIO DE JANEIRO

The capital of the United States of Brazil — Estados Unidos Brasil — is the most beautiful city of over a half a million population in the western hemisphere, although the city's business streets are narrow, dark and with an all-prevading warehouse smell. But once in Rio de Janeiro, we only need to take a few steps from the leading shopping street to the square at the landing piers of the ferries where the big rider statue of Don Pedro II stands, to see immediately that these shadowed streets, where no three wagons can pass are perhaps most important to the very existence of the city, its workshop, but never the dwelling place of Brazil's proudest citizens. You can see already from this point suburbs on hills around and across the harbor. You can then board one of the ferries, like many other inventions for transportation in this country, made by Uncle Sam; then a few dozen rounds of big side-wheels shove the boat away from the shore and "fata morgana!" you behold the mightiest artistic picture of an harmonic crescent-shaped city, the center rising in five distinct hills towering above lower rows of roofs and above each other and lifting into the sky white church towers and domes of public buildings, while the suburbs ends gradually descend in palm-covered swells, among which lay on broad avenues, elegant cottages and country estates, and finally lose themselves in both crescent ends among the orange groves

on the farther gold-sanded beaches. There, where the mountains on the south side of the city draw somewhat nearer to the ocean, granite rock ranges, topgrown with tropical forests, and gigantic boulders of impossibly natural, artistic shapes and reach into the ocean, now withdraw and then butt again and again around the south side of harbor, thereby almost closing its only entrance to the ocean. There looms up directly on the harbor entrance the famous natural tradesmark of one of Brazil's main products and exports — the "sugar loaf" rock, formed like one of the West Indian sugar hats, which were sold in the world's market during the last century in that form, creating the name of hat-sugar or loaf-sugar.

Slowly the ferry plies its way across the bay between a squadron of Brazilian men-of-war, which have their anchorage here, around the fiscal island, almost flat and entirely occupied by a red-rock castle-like government building. Farther south lie numerous islands, some used for fortifications and navy-yards, others green with forest, others bare granite rocks The green flag with its globe and its motto: "order and progress" — ordem e progresso — is everywhere conspicuous, as all merchantmen go farther into port to the north-east end of the city, where piers and docks lie behind high islands, so as to be discovered only by special search, but out of the landscape proper.

First we stop on a landing of one of the smaller residential towns across the capital and then we get to Nistoroy, the largest of the opposite towns. The country around Nistoroy is flat and level, the coast range receding some five miles, but numberless inlets and islands in never-alike circles and sizes give each place a distinct and individual character. Some are more pretentious, like the mansion of the late president of the Republic on the wide beach of Barreto, others more like spacious cottages, on points of prominence, a land tongue or some low hill back from the shore. Within an hour's walk you can touch virgin forests everywhere on the mountain slopes, where you will have to use a big cutlass among hianas and bamboos and mata-oleo to make entrance; but cultivated orange and banana groves with some fields of sugar cane amid, deceive the visitor successfully as to where wild nature, rural nature, and artistic garden nature commence and leave off. Like as the elm in New England or the cottonwood in Rocky Mountain States overtops the roofs of most country residences, so tower the crowns of oreodoxa or of attalea palms high over the country homes in Brazil and especially around Rio de Janeiro. On passing along the roads you use some of them as landmarks.

Some soft winds were rocking the blades of the palms in graceful circles forth and back like a welcome warning as I finally got up to one of the country estates, where I was called in to doctor some plantations of roses and to arrange some more groups of palms and flower beds. While I was looking up admiringly to those palms, there came crashing down just behind me an old dry leaf, twenty feet long, with an arm-thick shaft. The lower leaves will gradually get brown and bend down on the side of the trunk in time, from whence they come down butt-end first like an arrow, but luckily not with the quick gravity of wooden limbs, so that a person has time to jump out of danger, when he sees one descending. However, you have to be on guard for them in every Brazilian park after a rainstorm, where there are avenues of high palms. When I entered the place, some of the gardeners were planting a lawn, not seeding the grass, but planting pieces of a running couch grass, called grama by the Brazilians. This variety of graminea is a perennial of a coarse, thick growth, and not only withstands all hot sunrays but also by its thick massive root system keeps down most weeds. Piece after piece the whole lawn is planted like a flower bed; seeding down is said to be very tedious, unreliable and in most cases would be an entire failure. On the place were all kinds of roses, pure Brides and Bridesmaids, six feet high, as well as Kaiserin, La France, Souvenir de la Malmaison, Paul Neyron, Baroness Rothschild, etc., and I found all to develop very double and rich-colored flowers. Fine specimens of hibiscus forty feet in circumference, with red flowers of the size of sugar-bowls, others with elegant silver variegated leaves, others with pink flowers, and other handsome shrubs were grouped in the borders. On the lawns grew palms and exotics, cypress, araucarias, and dracænas, the last like small trees in the burning color of maples in a New England autumn. There were two huts surrounded by palms, built artistically out of natural limbs and covered with a palm-leaf roof in imitation of the old Indian huts and those of the earliest colonists, with immense tree trunks scattered all around and shaded shelves of fine adiantum, Begonia tuberosa, gloxina, etc., in pots and rare orchids and bromelias. This arrangement was a "happy thought": coming up on the walks you had the sensation of going into a rough "cut" — roça in Portuguese — of virgin forest; yet the walks lead smoothly around the dead trunks half overgrown again by artificially stimulated growth of vines and ferns; fine palms were sprouting up in intermediate spaces and when you bowed your head under the roof of the huts, you beheld instead of ferocious savages, fine cultivated plants, which gave testimony of a progressive civilization. The whole grounds were shaded by red acacias and attalea palms, thus giving a light shade all over the grounds, yet nowhere so dark as to be unfavorable to the growing of flowers and shrubs beneath them. The acacias are especially adapted for this purpose, their broad, spreading, but thin-foliaged branches giving shade like a cheese-cloth. Such a rich profusion of blossom, as these flowering trees display can hardly be matched in any other tree; Paul's scarlet thorns, perhaps being a not very close second. On the piazza stood big tubs of Nephrolepis Piersonii, bromelias on wooden logs, cacti and pandanaceæ. The park was surrounded by two orange and banana groves, between which was also situated a vegetable garden and a sugar-cane field, so you could pick a handful of strawberries, then go and cut a sugar cane and press your sugar then and there on your berries. Oranges are picked here like our best apples, with a short stem and often a few leaves left on them and costing from four to five cents per dozen in the market. Bananas are sold by the bunch, the ordinary varieties, fifty to seventy-five fruits in the bunch, and costing from twelve to fifteen cents, the red varieties being a trifle higher. All ordinary vegetables are grown with good results, and mature twice in every year, the first crop, sown in February and March, ripening in June, July, and August, the second sown in August and September, ripening in December, January, and February.

Gerhard Kleicken.

(Continued in next week's issue)

Moving Trilliums and other Wild Plants

It is not at all necessary to wait until August or later to move wild flowers. I move from the woods every year trilliums, marsh marigolds, cypripediums, rue anemones, and Asclepias tuberosa, in full bloom, and have no trouble whatever in getting them to live and thrive. They flag or sulk for a few hours, sometimes wilting down, but always come up smiling after one or two nights in their new location. Just the morning before the issue of May 6th came to hand, I dug about fifty trilliums and a dozen or more of rue anemone, but was unable to plant until twenty-four hours later. The plants were carried in a market basket, through about a mile of brush and briers, and finally set down in the potting shed with a bit of burlap over them, and were considerably wilted when set out, but now after three days have all revived but two, and I have no doubt every one will live. Of course it would have been better to have carried them in a closed box and planted at once, but circumstances did not permit in this case. I have several groups of trilliums planted during the last four years, all moved in bloom and all are thrifty and vigorous. They take to domestication as easily as a duck to water and are just the thing for low, shady ground. They increase slowly by offsets, one each year, and for this reason I take none as a rule except those having two stems to a corm. This gives me four the second year and six the third, and this is as far as I have got in four years, but on my last excursion I found four very large vigorous plants with triplet stems. This seems to me what should be a normal condition of a plant which has every part in threes, but I have never found but two similar specimens before.

The marsh marigold makes a bright show just as the early daffodils fade and I have utilized a low place just at the edge of the road near my carriage entrance to display seven plants, moved in full bloom. I find that this plant has early and late varieties covering a period of about a month. There is no prettier lawn ornament than a plant of this set in the sod. Take up a large stool with plenty of earth, just as the buds show, and about a week later it will come out with its bright yellow flowers and last about two weeks. Then it can be thrown out and the original circle of turf replaced (provided, of course, that it was placed in a shady place and kept watered), or the spot may be used for an azalea or geranium.

Of course, judgment must be used about placing such a conspicuous ornament or it may be as much out of place as a finger ring would be on the end of the nose. The rue anemone is quite common in woods around where I live but only grows from four to six inches high, but transplant it to good soil in the border and it at once grows to ten or twelve inches and stays a long time in bloom. I have a hedge of Pyrus Japonica about seventy feet long, and between the grass and the base of the hedge on the north side I have some clumps of this plant at intervals. It thrives and makes an effective showing at the same time that the shrub is in bloom, lighting up the somber shadow of the hedge. The wild yellow lady-slipper, or cypripedium domesticates easily and I have a large group of two sorts, one a little earlier than the other. The Asclepias tuberosa is one of our most brilliant wild flowers in July and is not common enough to make it undesirable, although its favorite location is along public highways and railroad banks. I move it in blossom by digging away the earth around it so as to get under with a spade, lifting all I can hold on the spade. Plant it at once and keep it well soaked with water for several days and it rarely fails to grow.

The wild myosotis or forget-me-not is very pretty in masses the size of a saucer, if properly located, and gives a mass of color for weeks. It roots near the surface and one can scoop its moss-like mass with the hand in a wet time, wrap it in a newspaper and carry it home and plant it and have it put on a new and vigorous growth within twenty-four hours.

L. B. Pierce

Antirrhinums

Antirrhinums are grown in increased numbers every year, and they are exceedingly useful in many ways, especially if grown to such perfection as they were by James Bond, gardener for Mrs. H. Brooks this winter. Mr. Bond grew the most of them in pots, one plant in a pot, six- and eight-inch pots being used. By disbudding and heavy feeding, flower spikes over six feet long were obtained, each spike carrying from fifty to seventy-five open flowers. Spikes of this size can be used for large vases having the merit of keeping for a considerable length of time besides being easily packed for shipment.

A good method to adopt when antirrhinums are wanted in the winter is to keep as many as may be required from out of the stock grown for summer planting, potting them into four-inch pots, keeping them pinched back and nearly starving them all summer. Then in the fall, either put them into larger pots or plant them in the bench, when they will make stronger growth than if grown right along from seed inside.

David McIntosh.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

One of the most touching tributes to the heroic dead is the custom followed in many of the New England coast communities of strewing the water with flowers in memory of those who gave up their lives on the sea in their country's service. The school children always take a prominent part in these impressive ceremonies.

At no time of the year is the use of artificial or dried flowers so incongruous as in spring when all nature is exuberant with life, and nothing looks more out of harmony with the sentiment and purpose of Decoration Day than the display of these tinsel things amid the bursting leaves, buds, and blossoms of this vernal celebration. To minimize the use of counterfeit material should be the aim of every one who wishes to see the floral character of this holiday perpetuated and intensified, and there is nothing that can be done that will avail more in this direction than the avoidance of anything savoring of avarice in the selling of flowers — bearing in mind the Easter lesson and that Decoration Day appeals with peculiar force to all classes and conditions of people.

Memorial Day, instituted for the purpose of strewing flowers on the graves of the patriotic soldier and sailor dead, has extended far beyond the scope originally contemplated; and the beautiful custom of devoting the day to floral decoration of the graves of all dear ones who have gone, old and young alike, prevails universally over the entire country. It is a custom well adapted to give expression to sentiments that exist in every human heart and the vicissitudes of human existence can be depended upon to keep it alive for all time. The florist is the great beneficiary of this most floral of all floral holidays, and it now remains for him to so deal with it that no excuse is given for a diversion of its benefits to any other form of memorial. Its universality is its best claim upon his consideration. It would be a most deplorable misfortune for the flower industry if the Memorial Day tribute should ever come to be a luxury.

The demands of out-door planting and other spring operations tends to divert the attention of the flower grower from the greenhouse crops which have monopolized his efforts throughout the winter season and the result is frequently a neglect at this time which is apt to prove very expensive. The business of Memorial Day has grown rapidly in recent years and is still growing. So important has it become that with some florists it is second to none, not excepting either Christmas or Easter. The prospective crop for Memorial or "Decoration" Day thus takes on a value that cannot be overestimated and he who relaxes his vigilant attention to his roses, carnations, or other greenhouse material makes a mistake which he will feel when the bills come in for goods that he will have to buy in market in consequence. The small proportion of red flowers as compared with white, at this date, gives a special value to any colored material, and those having such will experience no difficulty in marketing every bit of it at remunerative prices.

HORTICULTURE has done what it could to awaken the horticultural interests to the terrible scourge of moths from which eastern New England is suffering, and the impending danger to the gardens and forests of the entire country as well as the health and comfort of the people, if these horrible nuisances are not restrained. There is no subject of greater importance before the American public to-day. We repeat the warning which we have sounded before, and insist that the only hope for the country lies in the prompt action of the national government. Communities basing hope of immunity on their distance from the infested districts are doubtless booked for a rude awakening; caterpillars or egg masses may be carried on the roofs of freight cars across the continent in a few days, and it will not take them long to make their presence known and felt. If Congress is not compelled to act by an overwhelming demand, inestimable mischief is in prospect.

One of the most regrettable tendencies in garden-making in America at the present time is the "Italian garden" fad. Fashion and a desire to have something of foreign aspect and which is beyond the acquirement of any except the wealthy, seems to be the main incentive back of it all and this is encouraged and abetted by architects ambitious to cater to the caprices of the rich. Whatever there may be that is admirable in topiary work under Italian or other foreign skies, associated with certain architecture and harmonious environment, and with a class of material not practicable in this country, we certainly find no pleasure, but rather pain, in the contemplation of these incongruous clipped and distorted trees in the American landscape. Strange it is that, with their boasted culture and refinement, our people cannot be satisfied with the vast resources of harmonious and beautiful material at their disposal and nature's way of using it to best advantage. The "tree sculptor" is an abomination.

Gypsy Moth Bill Signed

Governor Douglas has signed the gypsy moth bill. The next step is the appointment by the governor of a superintendent to take charge of the work of suppression. The bill provides a State appropriation of $300,000 to be spread over three years, $75,000 for this year, $150,000 for 1906 and $75,000 for 1907.

NEWPORT

MARECHAL NIEL GROWN IN POTS

While going through the greenhouses of Hon. Perry Belmont the other day, my attention was drawn to a plant of Marechal Niel rose in a seven-inch pot. This plant, the only one remaining out of a large number Mr. Marshall had in for Easter, had then thirty-five flowers on it. These plants were trained fan shape by placing two wires bent into that shape into the pots, then tying the wood close in to these wires, and this was so well done on the plant seen the other day that no wire could be observed unless on very close scrutiny. Marechal Neil roses covered with beautiful and fragrant flowers in seven-and eight-inch pots for Easter had only to be seen to be quickly picked up by a retailer, who in turn, just as quickly disposed of them.

Mr. Marshall has three seedling carnations, planted in among standard varieties, the better to observe the relative merits of each. In color these are one red and two white. One white is not only fully as large as any standard white but it is also a free bloomer with a stem nearly four feet long. Mr. Marshall believes in grafted Liberty roses; he has them on their own roots and grafted, growing side by side, with the advantage plainly seen on the side of the grafted plants.

SOME GRAND CROTONS

The crotons grown by Colin Roberston, gardener for Mrs. Robert Goelet, recall to the minds of some gardeners the specimens grown in years gone by and periodically exhibited in Boston by David Montieth. These plants on three successive occasions won first premiums at the exhibition of the Newport Horticultural Society and they stand now in better shape than ever, without the loss of a leaf.

Mr. Robertson grows only about eight varieties and but a few plants of each variety and these are grown mostly from tops mossed early in winter. The tops are left on the old plants as long as possible before severing them, thereby enabling the young tops to stand the shock of separation from the parent stem without any ill effects. The house where these crotons are grown is slightly shaded in summer by trees growing outside, otherwise they are at all times fully exposed to the sunlight, which perhaps accounts for the brilliant color of the foliage from top to bottom. The varieties mostly grown here are Andreaneum, Victoria, Baroness Rothschild, Interuptum, Evansianum, Constadtii, Faciatum and Sunset, and these are grown in a way that shows each variety to the best possible advantage.

DAVID MCINTOSH.

WHAT THEY SAY OF US

HORTICULTURE is an exceptionally bright, up-to-date paper. — C. L. S.

I like your publication and congratulate you upon the success you have so far attained. — E. W.

QUESTION OF GRAPE CULTURE

The trouble with your correspondent, J. M. Roman's, grapes appears to me as if it was in the starting, as I should imagine that the vines were started without giving the border a thorough soaking, as Mr. Roman says he had violets planted on the border with sufficient heat to keep the same at about 45 degrees. The pipes would naturally help to dry the border, and the violets would also prevent him from giving the border a thorough soaking, at the time of year — the middle of January — when he says the vines were started. If your correspondent wants to start his vines in January in the future, he had better discontinue growing violets, or anything else on the border; otherwise it would be best to get through with the violets as early in spring as possible, clear the border and keep it clear, as it is very essential for a vine border to have all the sun and air it is possible to get, and soak the same thoroughly before starting. But my advice would be to discard the growing of violets altogether on the vine border.

ARTHUR GRIFFIN.

TO THE EDITOR OF HORTICULTURE

Dear Sir: — In a recent issue of HORTICULTURE I note the inquiry by a grower in trouble about grape culture in greenhouses. This used to be my hobby when I was young and a gentleman's gardener, and my ears itched to have a talk with that man for five minutes in his grapery. Tell him to clean his violets off his border, take his heat away from the roots below, let them have all the sun on the border they can get. Don't dig the border over two inches deep, carefully with a fork; encourage surface roots; raise the border above the level ground; don't dope them with too much bone dust or manure; have the border so that no water will lie in it but drain off. The roots are not in proper action but are decaying on account of shade on the border, and every year they will grow worse until they die. You must aim at new roots every year until the border is full; then all will go right.

I will answer any question your correspondent wishes to write to me. I have grown bunches of Black Hamburgs two feet and a half around, and one vine of White Nice three years old that bore two bunches sixteen pounds each. It takes practice, patience, and perseverance to do it, but if he loves to force fruit as I used he can do it.

Yours respectfully,

ROBERT LINNEY.

AKRON, O.

INSECTS AND INSECTICIDES

"Subscriber" requests us to ask our readers whether any one can make for him a list as complete as possible of all insects and fungi which attack plant life, also a list of all fungicides and insecticides that can be used to combat them, giving directions for their use in small and large quantities. We shall be glad to publish anything that may be sent to us in response to this inquiry, but meanwhile would recommend "Subscriber" to write to the Bowker Insecticide Company, Boston, who have made a study of this subject for many years and probably know as much regarding it as any one does.

OBITUARY

Michael Curley, for many years engaged as a florist in Hyde Park, Mass., died on Thursday, May 11, at the local emergency hospital, as the result of a fall down stairs at his home on Wednesday, whereby his skull was fractured. He was a veteran of the Civil War, enlisting in 1861 and serving to the close of the war.

Personal

Edgar King has been appointed assistant superintendent of the Springfield (Mass.) cemetery.

Mr. Harry Bayersdorfer, of Philadelphia, sailed on the Grosser Kurfürst on May 18th, for Bremen, Germany.

Nelson F. Higgins, who has been in charge of the cemetery greenhouses at Springfield, Mass., has resigned to take up the florist business.

Visitors in Boston: George C. Watson, representing Clucas & Boddington Co.; W. C. Eldering, Overveen, Holland, Mr. Eldering is just starting on his annual American trip; S. S. Skidelsky of Philadelphia.

Carl E. Kern who has been employed with superintendent G. X. Amrhyn in the New Haven Park department has resigned to take the position of landscape-gardener on the estate of Payne Whitney at Manhasset, L. I., which is to be greatly improved and laid out new.

W. N. Craig of North Easton, Mass., secretary of the Gardeners' and Florists' Club of Boston, met with severe injuries on May 10, by being thrown from an express wagon. His right side was badly hurt, one rib broken, two or three others fractured somewhat, head cut, one finger crushed, and one laid open. Best wishes for his speedy recovery are extended.

BUSINESS CHANGES

Henry Merkel has opened a retail store on Euclid avenue, Cleveland, O.

Otto J. Sawyer has rented the greenhouses of George W. Fetzer at Allentown, Pa.

W. L. Morris of Des Moines, Ia., has filed a voluntary petition in bankruptcy.

The florists' store of Elmore & Evans at Whitesboro, N. Y., has been discontinued.

Hermans & Reger have opened a retail store at 457 Fifth Avenue, Brooklyn, N. Y.

The Fairmont Nursery Co., Fairmont, Minn., has been incorporated. Capital, $25,000.

Vredenburg & Co., Rochester, N. Y., lithographers, have been incorporated. Capital, $200,000.

The business of W. G. Richardson at Bennington, Vt., has been disposed of to Thomas H. Phelan.

The business of the late Jeremiah Harrigan at East Foxboro, Mass., will be carried on by his son, D. S. Harrigan.

Louis A. Riemer has succeeded to the firm of Riemer & Radmer as agent for the Furman boilers at Milwaukee, Wis.

Mr. C. Hansen has leased his greenhouses in St. Paul from June first to Frank Gustafson, recently in the employ of L. L. May & Co.

The Frank Netschert Co. have been incorporated in New York to manufacture artificial plants and flowers. Capital, $25,000.

Salter Bros.' new store on Main street, Rochester, N. Y., has about seventy feet frontage. Mirrors are largely used on the walls and the arrangement of plants and flowers for effect shows the work of a master hand. If the style followed here were widely copied by store florists it would have a marked effect on the flower trade. Albion Salter has charge.

Notes on the Cultivation of Pæonies

A paper read before the Gardeners' and Florists' Club of Boston by Robert Tracy Jackson

[See Frontispiece]

Herbaceous pæonies are mostly of the easiest cultivation. Full sunshine, or at least a good exposure to the sun is necessary as they do not thrive in the shade as under trees. The roots of trees or large shrubs are objectionable, especially elms, maples and lilacs, as absorbing the nourishment and water needed for the full development of the pæonies. A location protected from the force of the wind is desirable where possible. Pæonies will stand great variation as regards soil, but a heavy rather than a light sandy soil suits them best. Being strong feeders and vigorous growers they should be given deep cultivation, eighteen inches to two feet, even more is recommended by some, but I have had good results with two feet. An abundance of barnyard manure should be worked well into the soil especially before planting. If this manuring can be done some months previously, so much the better. Cow manure is best when available. W. A. Peterson says that where propagation is the feature desired peonies form more and better roots in light rather than heavy soil.

Where the soil is sandy an addition of clay would doubtless be an advantage. In a heavy clay, which is the condition in my garden, a free use of sifted coal ashes and leaf mold, dug into the soil works wonders in ameliorating and improving its tilth. Coal ashes contain little potash and add practically nothing of chemical fertilizing ingredients to the soil and nearly the same may be said of leaf mold, but both improve its mechanical condition which is of the very first importance, for successful plant growth. Sand and road scrapings where available are of course excellent for lightening heavy soil; stress is laid on coal ashes simply because their value is not usually appreciated and in small gardens it is a convenient available material, usually a waste product to be gotten rid of. My attention was called to the value of coal ashes by Dr. Henry P. Walcott, who has used it for many years in his garden. It is much used by English and Scotch gardeners for clay soil. In the autumn cleaning of the streets in Cambridge the city carts collect great quantities of leaves which they are very glad to dump on the grounds of willing citizens. These in a single year, by turning once, make a fine, well decomposed leaf mold ready to dig into the garden, and give room for a new lot of leaves.

It is emphatically best to plant pæonies in the fall. In the spring they may be transplanted if necessary; but it is undesirable to purchase stock at that time. Frequently plants purchased in spring will not appear above ground the first year, as may happen with excellent stock coming from a distance, also in spring there is more chance of the death of some plants than with fall planting. If plants are received in autumn too late for fall planting, at is sometimes the case in importing, or if they are in questionable condition, if small enough, it is best to pot them and plunge the pots in a cold frame for the winter. In spring they can then be planted out without disturbing what roots they have made.

Pæonies may be left in the ground without transplanting some eight or ten years, but longer is undesirable if best results are to be attained. It is sometimes stated that peonies may be left in the ground almost indefinitely but this is a mistake if good results are expected. The finest flowers are to be had on moderate sized, well-grown plants. If plants are left too long in the ground they sometimes die out in the center.

For purposes of propagation plants may be advantageously taken up more frequently, every two or three years, divided with a large sharp knife (a small carving knife is very good), so as to leave at least one bud with a portion of the root. Pæony roots are stiff and unyielding as well as brittle, so that they are very apt to be broken seriously in dividing. C. S. Harrison says, "Let them lie in the shade a few hours and wilt. This toughens them and does not hurt them a particle. You can immediately restore them to their plumpness by putting them in wet moss, or keeping in or planting in moist earth. This is very important." I have tried Harrison's method this fall, only I left them out of ground for several days in cool weather. When the roots become somewhat flaccid and yielding instead of rigid and brittle, they can then be easily divided without injury, even to solid old clumps. They will regain their original plumpness in a few hours' exposure in a damp medium. Harrison has made an important contribution to the details of pæony propagation by this communication.



PÆONY, ICHARDSON SEEDLING: SAMUEL HENSHAW

The small plants after division may be set out in nursery rows, two feet apart, the plants being about twelve to eighteen inches apart in the row, according to size. In cutting up, some roots will be broken off and these may be planted with the rest as more or less will grow from adventitious buds starting under these conditions. Actual observations of what proportion will grow from adventitious buds would be desirable, but do not exist as far as I am aware. Mr. Harrison says ". . . if a root is broken at the center, the lower portion can never form a head . . . The upper portion of the same root where it breaks from the plant will have a good show for forming a head." He also says "I have often planted buds alone, with no root whatever. One fall I put in thirty, and the next year had twenty-seven fine plants." In propagating if the plants are choice, and are cut very fine it is desirable to set a frame over them the first winter. As Peterson says herbaceous pæonies of choice varieties may be propagated by grafting. This method is practised to some extent; but I think is most undesirable for herbaceous plants. Grafting is not expected in such plants and if practised endless confusion in varieties may occur from the growth of adventitious buds from the stock. If this is done they should be grafted on officinalis, tenuifolium, or some other distinct species, so that shoots from the stock, which are likely to develop, will be strikingly distinct from those developed by the scion.

(Continued in next week's issue)

NEWS OF THE CLUBS AND SOCIETIES

NEW LONDON COUNTY HORTICULTURAL SOCIETY

The meeting of this society at Norwich, Conn., on May 10, was a very successful one. W. H. Wyman of North Abington, Mass., talked on the subject of the Twentieth Century Horticulturist. In the course of his remarks he strongly advised the study of forestry and recommended the giving of more attention to our native flora in the work of landscape adornment and general gardening. His address was much enjoyed and at the close he was given a vote of thanks.

HARTFORD FLORIST CLUB

The regular meeting of this club was held on Friday night, May 12, with a large attendance. President Huss gave an interesting talk on Alpine Auriculas and other perennials, of which he is a most successful grower. It was intimated at the meeting that the executive committee of the American Rose Society would meet in Hartford, June 19.

A lively discussion took place on the subject of window boxes. The president appointed a committee to devise ways and means for bringing this important matter before the public. Resolutions were also adopted on the death of Mr. Alfred Whiting.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The Trunk Line Association has made the usual reduced rate to the Washington convention of one and one-third fare for the round trip. The Trunk Line Association territory includes the States of New York, Pennsylvania, New Jersey, Maryland, West Virginia, and a portion of Virginia. Following the granting of this concession by the Trunk Line Association, application has been made to the New England, Central, Southeastern, Southwestern, and Western Passenger Associations for a similar reduction. As soon as action has been taken by these associations, due announcement will be made accordingly.

WM. J. STEWART, *Secretary.*

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The monthly meeting of this prosperous club was held at Horticultural Hall on Tuesday evening, May 16, sixty members being present. Eight new members were added during the evening. On the exhibition tables were some attractive exhibits, among them being Louis Dupuy's novelty Crassula hybrida, a vase of William Sim's famous candytuft, with blooms of sensational size, and a variety of hardy garden flowers from J. Heurlin. In response to a query Mr. Sim said that it was his custom to sow his candytuft seed about last week of November in a cold house, temperature 36 to 40 degrees. The young plants are ready to set out by last week in March.

Kenneth Finlayson reported for his committee on the evil of re-naming plants, that they would recommend reference of this matter to the S. A. F. and the report was accepted. Secretary Craig was unable to be present owing to his late accident.

The interesting event of the evening was the reading of a paper on pæony culture by Robert Tracy Jackson. The paper was substantially the same as this gentleman presented last season before the Massachusetts Horticultural Society. We take pleasure in presenting it. For the use of the illustrations we are indebted to Secretary Rich of the Massachusetts Horticultural Society.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY

The Morris County (N. J.) Gardeners' and Florists' Society held its regular meeting on the 10th inst. On call of President Heeremans, several members came up with exhibits in both plants and flowers. President Heeremans staged a dozen magnificent specimens of calceolaria grown in 6- and 8-inch pots. The committee on exhibits gave a certificate of merit. By request of members present, Mr. Heeremans promised to read a paper on their culture at our next meeting. A vase of carnations in variety from R. Vince was remarkably good for this time of the year and received cultural commendation. Well-done specimens of begonia and variegated hydrangea shown by Mr. Mülmichall, gardener to C. A. Work, received cultural commendation. A vase of mixed chrysanthemum blooms was put up by C. H. Totty. Baby Ramblers in bloom from John Frazer, gardener for Gustav E. Kissell, were shown in fine form. The possibilities of this rose as a pot-plant were manifested. Clucas & Boddington Co. sent by special messenger sixteen varieties of hardy herbaceous perennials in bloom. They were interesting and instructive, just things that the florists on private estates need at this season of the year.

Robert M. Schultz and Andrew McKendry were elected members, and Harry Green, David Pierson, and William McCoy were proposed for membership.

Our 10th annual flower show will be held in the Assembly Rooms, Madison, Oct. 26th and 27th, next. Prospects look bright. Schedule is in press and can be secured later on, from E. Reagan, secretary, Morristown, N. J.

NOTES

On May 11 the Torrey Botanical Club gave an exhibition of violets at the New York Botanical Gardens. The exhibits came from various parts of the country and many species and varieties were represented. Dr. N. L. Britton and Dr. H. H. Rusby discussed their classification.

The preliminary schedule of the fifth annual exhibition of the New Haven County Horticultural Society is out. The show will be held in Music Hall, New Haven, Conn., on Tuesday, Wednesday, and Thursday, November 7, 8, and 9, 1905. For copies and further information apply to Thomas Pettit, secretary, 90 Prospect street, New Haven.

Arrangements are being made for a demonstration of spraying methods at Middlesex Fells at some time next week, under the auspices of the Society for the Promotion of Agriculture and the direction of the Boston Park Commission. A space of ten acres at the junction of Wyoming avenue and Ravine road, which is badly infested with the gypsy moth has been selected and the demonstration is expected to show not only what it costs to spray with improved machinery, but also something decisive as to the efficacy of the process, as the moths are now hatching out. The apparatus which Mr. Pettigrew has perfected will throw a spray to a height of sixty or seventy feet.

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FEVERFEW, 2 1-4 inch pot, $2.50 per 100; 4-in-pot, $4.00 per 100.
BLUE LOBELIA, 2 1-4 in. pot, $2.50 per 100.
DOUBLE PETUNIA, 4-in. pot, $6.00 per 100.
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COLEUS, rooted cuttings, Golden Bedder and Verschaffeltii, 60c. per 100, $5.00 per 1000; 2 1-4 in. pot, $2.00 per 100.
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In writing to advertisers, kindly mention HORTICULTURE

CUT-FLOWER MARKET REPORTS

BOSTON The market is burdened daily with heavy receipts of good material for which the demand is very light. The stock coming in is of remarkably fine quality, but it does not realize as it deserves. American Beauty and Carnot roses from cold houses take the lead. Carnations are still excellent as to grade with rates low, quality considered. Lilies are very sluggish, no demand for them whatever. It is expected that next week will see a change in conditions. Lily of the valley is faring as well as in past years at corresponding date.

BUFFALO The first half of week beginning May 8, was one of the dullest since Easter. Stock accumulated fast and by end of week everything was sold at very low prices.

Roses are still plentiful, but show the effects of warm weather. Select stock sold freely, Beauties holding firm. Lily of the valley is more plentiful and is moving well. A good supply of lilies, sweet peas, mignonette, etc., is being received daily.

CHICAGO The noteworthy feature in this weeks' cut flower trade was that the market supply has again settled to normal conditions. Express companies are now accepting cut flowers from all points and their regular city deliveries are being operated without a hitch. This along with our excellent system of deliveries for all outgoing shipments, settles the express question. Shipping demand held prices fairly well on good stock and with several houses was more urgent than on the previous two weeks. While HORTICULTURE's Chicago representative was actually responsible for the prosperity wave, yet those who use HORTICULTURE's advertising columns believe that to be also a factor in the increased demand. American Beauties are advancing in price occasioned by the crops coming to an end. The shortage is particularly on the extra and select grades. Brides and Bridesmaids continue in enormous quantities which bid fair to hold out until Decoration Day, after which date replanting will be on in full force, Wietor Bros. and Peter Reinberg have already commenced cutting from new stock. Quality of old stock is excellent for so late in the season. The supply of carnations is fairly cleaned up each day. While no advance in price has taken place, there were fancies which sold up to top quoted price which would not have brought it last week. There is a strong demand for red roses and sales at advances of $2 to $4 are common. Lilies and callas are the weak spot of the trade. Sweet peas sell rapidly. Cattleyas Mossiæ and Skinnerii are quickly taken by the smart buyers. Plenty of lilac and outdoor stock is now to be had, peonies predominating. Festiva Maxima (Drop White) is the favorite white, Von Bonback the choicest shell pink, officinalis rubra for red. The bulk of the crop is already in cold storage. Outdoor tulips are very popular and for fancy sorts good prices are realized. Smilax crops are shortening up. The new decorative green — huckleberry branches, has made a hit with our best retailers.

CINCINNATI Little can be said in regard to business for the past week. Stock in all lines has been plentiful with no fixed price.

Lilies continue to come in heavily and are moving very slow.

LOUISVILLE Business conditions the previous week were very favorable, with the exception of the planting end, owing to the continuous rain. Carnations have become very plentiful, the quality being good, with a steady demand. Roses of good quality are in demand and the supply is adequate. Nearly all the pæonies that have been received so far sold well, the quality being very good. Lilies have also sold well and are now a little short.

NEW YORK With a large supply of indoor and outdoor material, the steamer and funeral work, which comprises most of the business done in May, makes little impression on the supply. There has been a marked deterioration in the quality of Beauty, Bridesmaid, and Bride roses in the last week. Carnations are also, many of them, diminishing in size. Quoted prices do not correctly reflect the depressed condition of the market as large surplus lots are either left over or disposed of at sacrifice prices.

PHILADELPHIA Business last week was rather better, taken as a whole, than the week previous. Stock was as plentiful if not more so. The last of the week wound up in quite good shape. Beauties are still at a low ebb as to price and quite plentiful. Stock good. Liberties also about the same. Brides and Bridesmaids, quality possibly not quite as good, but excellent for this time of the year. Lily of the valley moving well, quality excellent. Very few orchids about, mainly cattleyas and dendrobiums, very few white. Sweet peas are plentiful, quality good and moving in a half-hearted way. Greens are none too plentiful and still going in a satisfactory shape. Business from now on until the early part of the month of June should be very fair. Prices of course will rule low and the outlook for the quality of stock is rather better on account of commencement work and other festivities.

ST. LOUIS Cut flower demand is very light with great quantities of stock coming in to the market. Roses are declining in quality and other staples are following suit.

FOR DECORATION DAY
PEONIES
NEW CROP DAGGER FERNS
THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

PEONIES AND ALL SEASONABLE FLOWERS FOR DECORATION DAY
Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO May 16	ST. LOUIS May 16	PHILA. May 17	BOSTON May 18
ROSES				
Am. Beauty, Fan. & Sp.	32.50 to 40.00	..... to	20.00 to 25.00	20.00 to 25.00
" Extra	25.00 to 30.00	..... to 25.00	15.00 to 18.00	12.00 to 15.00
" No. 1	18.00 to 20.00	15.00 to 20.00	12.50 to 15.00	4.00 to 8.00
" Lower grades	2.00 to 10.00	3.00 to 12.50	4.00 to 8.00	1.00 to 2.00
Bride & Maid — Fan. & Sp.	6.00 to 8.00	..... to	6.00 to 8.00	5.00 to 6.00
" " Extra	5.00 to 6.00	..... to 4.00	5.00 to 6.00	4.00 to 5.00
" " No. 1 and Lower gr.	2.00 to 5.00	2.00 to	2.00 to 5.00	1.00 to 3.00
Liberty, Fancy & Special	12.50 to 15.00	..... to	15.00 to 20.00	10.00 to 12.00
" extra	10.00 to 12.00	..... to 5.00	10.00 to 12.50	8.00 to 10.00
" No. 1	8.00 to 10.00	2.00 to	6.00 to 8.00	4.00 to 6.00
Meteor	2.00 to 8.00	..... to	..... to	2.00 to 6.00
Carnot and Kaiserin	2.00 to 10.00	..... to	6.00 to 8.00	4.00 to 6.00
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Golden Gate, Ivory, Chatenay — Best	6.00 to 8.00	..... to 4.00	6.00 to 8.00	6.00 to 8.00
Golden Gate, Ivory, Chatenay — Medium	4.00 to 5.00	..... to	4.00 to 5.00	3.00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	2.00 to 3.00	2.00 to	2.00 to 3.00	1.00 to 2.00
CARNATIONS				
Fancy Class	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	1.50 to 2.00
General Class	.75 to 2.00	.75 to 1.50	1.00 to 2.50	.75 to 1.00
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	..... to 50.00	..... to .....
Cattleya Skinneri	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	6.00 to 8.00	5.00 to 8.00	5.00 to 6.00	3.00 to 6.00
Lily of the Valley	2.00 to 3.00	..... to	3.00 to 5.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	..... to	.50 to 1.00
Tulips	1.50 to 4.00	..... to	..... to	.50 to 1.00
Callas	5.00 to 7.50	5.00 to 8.00	6.00 to 10.00	6.00 to 8.00
MISCELLANEOUS				
Mignonette	2.00 to 6.00	..... to	2.00 to 3.00	1.00 to 2.00
Sweet Peas	.50 to 1.00	.25 to .50	.50 to 1.00	.50 to .75
Adiantum Cuneatum	.50 to 1.00	..... to 1.00	..... to .75	..... to 1.00
" Croweanum	..... to	..... to	1.25 to 1.50	..... to 1.50
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 16.00	..... to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	35.00 to 50.00	25.00 to 50.00	35.00 to 50.00
" " bunches	25.00 to 50.00	20.00 to 40.00	25.00 to 50.00	35.00 to 50.00
" Sprengeri "	25.00 to 50.00	25.00 to 75.00	..... to	25.00 to 35.00
Gardenias	3.00 to 5.00	..... to	1.00 to 1.50	..... to .....
Lilacs, bunches	10.00 to 25.00	..... to	25.00 to 50.00	..... to .....
Peonies	3.00 to 8.00	..... to	..... to	..... to .....

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

In writing to advertisers, mention HORTICULTURE

Hardy Cut Dagger and Fancy
FERNS
$1.50 per 1000
Green and Bronze Galax, $1 per 1000
Best Stock of FLORISTS' SUPPLIES In the country
H.M.Robinson & Co.
8 & 11 PROVINCE ST.
Boston, Mass.

In writing to advertisers, mention HORTICULTURE

--- THE ---
Philadelphia Cut Flower Co.
R. C. HAYDEN, Secy. and Treas.
WM. J. MUIR, Manager.
For DECORATION DAY WE WILL HAVE
Peonies, Carnations, Roses Etc.
in quantity. Write us for prices
Store Open from 7.30 A.M. to 8.00 P.M.
1516-1518 Sansom St.
PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER
WHOLESALE FLORIST
1432 So. Penn. Sq., PHILA.
Fine Carnations

In writing to advertisers, mention HORTICULTURE

CHAS. W. McKELLAR
51 WABASH AVE. CHICAGO
Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG
WHOLESALE
CUT FLOWERS
51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

GEORGE A. SUTHERLAND CO.
CUT FLOWERS
Florists' Supplies and Letters
34 Hawley St. - BOSTON

EVERYTHING IN
CUT FLOWERS
OUR MOTTO { GOOD { STOCK TREATMENT PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

NEWS NOTES

A special appropriation has been made by the Board of Aldermen of New York City for the purchase of the collection of greenhouse plants belonging to the estate of the late William Brown of Flatbush.

The creditors of Drake & Carlson of 431 Main street, Hartford, Conn., have been asked to agree to an extension of time in which to settle the debts of the firm. Indebtedness is given as $4,500 and assets $6,100.

Among the freight destroyed by the fire in the steamer *Kingstonian* in Boston harbor last week were one thousand dollars' worth of palms for A. Leuthy & Co. The loss was fully covered by insurance. Ed. MacMulkin also had a lot of bay trees on board which were lost.

At the annual meeting of the stockholders of the New York Cut Flower Exchange the following officers were elected: president, William Amos; vice-presidents, W. H. Siebrecht and Charles Beekman; treasurer, W. C. Duncan; secretary, John Donaldson; directors, W. H. Siebrecht, John A. Leech, Charles Beekman and David Dean.

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
In writing to advertisers, mention HORTICULTURE

HEADQUARTERS
—FOR—
Large Flowering Peonies
ALL COLORS
$3.00 TO $6.00 PER 100
50c TO 85c PER DOZ.

We can and will take care of your Memorial Day wants. Write us your needs now.

E. F. WINTERSON CO.
45-47-49 Wabash, CHICAGO
Catalogue Free
In writing to advertisers, mention HORTICULTURE

AMERICAN BEAUTY PLANTS
From Bench
$5.00 per 100. $40.00 per 1000

GEO. REINBERG
51 Wabash Ave. CHICAGO
In writing to advertisers, mention HORTICULTURE

LILIES LONGIFLORUM
$6.00 to $8.00 per hundred, buds or blossoms, in pots or out. Extra Fine Quality.
ORDER NOW FOR MEMORIAL DAY
BOCK, *THE FLORIST*
2394 Massachusetts Ave. North Cambridge, Mass.
In writing to advertisers, mention HORTICULTURE

NEW CROP
Dagger Ferns
$1.50 PER 1000
They are the finest and largest ferns ever sold
CROWL FERN CO.
FANCY FERNS, $1.50 per 1000

Bouquet Green, $7.00 per 100 lbs. **Bouquet Green Wreaths and Laurel Wreaths,** all sizes and prices.

Laurel Festooning, extra fine and full, 4c, 5c and 6c per yard, and made fresh daily from the woods. Send for sample of our Laurel Wreaths for Memorial Day use.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send us your orders for Memorial Day NOW
and you will get the best to be had and at rock-bottom prices

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.
Telephone and telegraph orders will receive immediate attention.

Telegraph Office, New Salem, Mass. Long Distance Telephone Connection
TELL US YOUR WANTS; WE WILL DO THE REST

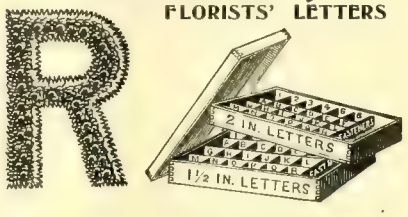
CROWL FERN CO., MILLINGTON MASS.
In writing to advertisers, kindly mention HORTICULTURE

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK
In writing to advertisers, mention HORTICULTURE

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON

WIETOR BROS.
Wholesale Growers of
CUT FLOWERS
51-53 Wabash Ave., CHICAGO, ILL.
In writing to advertisers, mention HORTICULTURE

FRED C. WEBER
FLORIST
4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

BOSTON FLORIST LETTER CO.
MANUFACTURERS OF
FLORISTS' LETTERS


This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 3. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.
N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.
In writing advertisers, mention HORTICULTURE

H. Bayersdorfer & Co.
50-56 North 4th Street
PHILADELPHIA, PA.
Florists' Supplies
BEST LINE IN THE COUNTRY

Advertise here. It will produce a full crop.

REED & KELLER
122 W. 25th St., New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Galax Leaves and all Decorative Greens
Agents for CALDWELL'S PARLOR BRAND WILD SMILAX
In writing to advertisers, mention HORTICULTURE

WILLIAM J. BOAS & CO.
...MANUFACTURERS OF...
Folding Flower Boxes
No. 1042 RIDGE AVENUE, PHILADELPHIA
Write for Price List and Samples
In writing to advertisers, mention HORTICULTURE

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

JOHN YOUNG
Wholesale FLORIST
51 West 28th St., New York
Telephone, 1905 Madison Sq.
Best Beauties, Brides and Bridesmaids. Special Violets, Lily of the Valley, Orchids and Lilies, Renowned Cottage Garden Carnations

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone Call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
In writing to advertisers, kindly mention HORTICULTURE

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone : 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
Telephones { 2200 / 2001 } Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending May 13 1905	First Half of Week beginning May 15 1905
ROSES		
Am. Beauty, fan. and sp	10.00 to 20.00	10.00 to 20.00
" extra	5.00 to 8.00	4.00 to 8.00
" No. 1	2.50 to 4.00	2.00 to 4.00
" Lower grades	.50 to 1.00	.50 to 1.00
Bride & Maid, fan. and sp	4.00 to 5.00	3.00 to 5.00
" " extra	2.00 to 3.00	2.00 to 3.00
" " No. 1 and Lower gr.	.50 to 2.00	.50 to 1.50
Liberty, fan. and sp.	8.00 to 12.00	8.00 to 15.00
" extra	4.00 to 6.00	4.00 to 8.00
" No. 1	2.00 to 3.00	1.50 to 2.50
Meteor	1.00 to 8.00	.75 to 8.00
Jacq	2.00 to 10.00	2.00 to 10.00
Brunner	3.00 to 20.00	2.00 to 20.00
Carnot and Kaiserin	1.00 to 5.00	.50 to 4.00
Golden Gate Best	4.00 to 5.00	4.00 to 5.00
Ivory Medium	1.50 to 3.00	1.00 to 2.00
Chatenay Culls	.50 to 1.00	.50 to 1.00
CARNATIONS		
Fancy Class	1.50 to 2.00	1.50 to 3.00
General Class	.50 to 1.00	.50 to 1.00
ORCHIDS		
Cattleyas	40.00 to 60.00	20.00 to 60.00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	2.00 to 3.00	2.00 to 4.00
Lily of the Valley	2.00 to 4.00	1.00 to 4.00
Stocks	..... to	..... to .....
Daffodils	..... to	..... to .....
Tulips	..... to	..... to .....
Callas	4.00 to 5.00	2.00 to 5.00
MISCELLANEOUS		
Mignonette	.50 to 2.00	.50 to 2.00
Sweet Peas	.15 to .35	.15 to .35
Adiantum Cuneatum	.75 to 1.00	.50 to .75
" Croweanum	..... to 1.50	..... to 1.50
" Farleyense	10.00 to 15.00	..... to .....
Smilax	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings	25.00 to 50.00	20.00 to 40.00
" " bunches	15.00 to 35.00	15.00 to 35.00
" Sprengeri "	10.00 to 25.00	10.00 to 20.00
Gardenias	4.00 to 12.00	4.00 to 10.00
Lilacs, bunches	10.00 to 50.00	5.00 to 40.00

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., NEW YORK CITY
Tel. 854 Madison Sq.
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 / 1463 Madison Sq. New York

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
43 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Fine White and Yellow Daisies a Specialty
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

YOUNG & NUGENT
42 West 28th Street *WHOLESALE FLORISTS*
Telephone, 2065 Madison Sq.
CATTLEYAS, GARDENIAS, ROSES, CARNATIONS and all seasonable novelties. With our long experience in shipping, and competent assistants in our packing department, we are in a position to guarantee out-of-town customers who place their orders with us that they will not be disappointed.

OUR FLOWERS Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unexcelled quality EVERY DAY IN THE YEAR.
We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
TRAENDLY & SCHENCK
44 West 28th St. New York City Telephones, 798-799 Madison Square

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

JAMES HART
THE ORIGINAL
Wholesale Florist
FLOWERS HANDLED ON COMMISSION
CAREFUL PACKING and SHIPPING
117 West 30th Street, New York

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI May 16	BALTIMORE May 10	BUFFALO May 16	PITTSBURG May 15
ROSES				
Am. Beauty, fan. and sp.	..... to 25.00	25.00 to 30.00	20.00 to 25.00	..... to 20.00
" extra	15.00 to 20.00	..... to	12.00 to 15.00	..... to 15.00
" No. 1	8.00 to 10.00	..... to	6.00 to 10.00	6.00 to 8.00
" Lower grades	5.00 to 6.00	..... to	3.00 to 5.00	2.00 to 4.00
Bride & 'Maid, fan and sp.	..... to 6.00	..... to 7.00	6.00 to 8.00	..... to 8.00
" " extra	4.00 to 5.00	..... to 6.00	5.00 to 6.00	..... to 6.00
" " No. 1 and Lower gr.	1.50 to 3.00	..... to 5.00	2.00 to 5.00	2.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	6.00 to 8.00	..... to 12.00
" extra	..... to 4.00	..... to	5.00 to 6.00	..... to 10.00
" No. 1	2.00 to 3.00	..... to	4.00 to 5.00	..... to 6.00
Meteor	..... to	..... to	3.00 to 6.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Carnot and Kaiserin	..... to	..... to	6.00 to 8.00	4.00 to 10.00
Golden Gate) Best	..... to 6.00	..... to 8.00	5.00 to 6.00	..... to 8.00
Ivory) Medium	4.00 to 5.00	..... to 7.00	3.00 to 4.00	..... to 6.00
Chatenay) Culls	2.00 to 3.00	..... to 5.00	2.00 to 3.00	..... to 3.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to 2.50	1.50 to 2.00	..... to 3.00
General Class	.75 to 2.00	..... to 1.50	.75 to 2.50	1.00 to 2.00
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	4.00 to 10.00	..... to	8.00 to 10.00	4.00 to 8.00
Lily of the Valley	..... to 3.00	..... to	..... to	2.00 to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	1.00 to 2.00	..... to .....
Tulips	..... to	..... to	1.00 to 3.00	..... to .....
Callas	..... to 8.00	..... to	6.00 to 8.00	6.00 to 8.00
MISCELLANEOUS				
Mignonette	..... to	..... to	1.00 to 3.00	2.00 to 3.00
Sweet Peas	.50 to .75	.60 to .75	.40 to .75	.20 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	10.00 to 12.00	..... to .....
Smilax	..... to 12.50	20.00 to 25.00	15.00 to 20.00	10.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to 50.00	50.00 to 60.00	25.00 to 50.00
" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	25.00 to 40.00
" Sprengeri "	..... to 35.00	25.00 to	25.00 to 50.00	25.00 to 50.00
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, bunches	..... to	..... to	..... to	..... to .....

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

J. R. Ratekin of the Western Seed Co., Shenandoah, Ia., has been declared bankrupt.

A final meeting of the creditors of D. Landreth & Sons will be held at 528 Walnut street, Philadelphia, May 23.

The American Seed Trade Association will hold its annual convention at Alexandria Bay, N. Y., June 20-22.

Such crops as melons, cucumbers, corn, beans, and, in fact, all those requiring warm weather are making slow headway, and will be late.

Seedsmen generally are reporting a good business, and no doubt the close of the season will show that the volume of trade has been fully up to average.

Potatoes have proved a drag, and are not worth much more than freight just now, but before new crop becomes abundant, old stock is likely to be worth more than at present.

Onion sets had a sinking spell during April and have not recovered. Owing to the high price of onions, onion seed has been in good demand, and seedsmen have had the satisfaction of reducing their stock to a gratifying extent. Business throughout the east is still active.

Although there have been no killing frosts during May in the eastern or middle States, the weather continues cool, and vegetation is making slow progress. Asparagus, which at this time of year should be abundant and cheap, is scarce and high in price. Owing to its slow growth it is poor in quality.

W. Atlee Burpee and Howard M. Earl sailed for Europe, on the *Patricia*, on Saturday, May 13. Mr. Burpee will visit the cauliflower-growing districts in Denmark and thence to London and to Paris. Then, in July, he will be joined at Queenstown by Mr. and Mrs. A. B. Scott and together they will spend the balance of the trip in seeing interesting points in Ireland, Scotland, and England.

LIST OF PATENTS

Issued May 9, 1905

789,154. Weeder. Arnold Jakel, Shaw, Oregon.

789,158. Lawn-Mower. Samuel P. Lerch, Canton, O.

789,675. Fruit or Vegetable Corer. Perry J. Erby, Trotwood, O.

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HORSESHOE BRAND and PLANTS

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THOS. J. GREY & CO.

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LILIUM LONGIFLORUM

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Seeds in original packets, at 25c. per packet, from seedsmen throughout the United States.

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BE SURE TO GET OUR FIGURES ON ALL KINDS OF

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Estimates and suggestions on proposed structures sent promptly

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In addition to the above, we have for sale everything in the way of Supplies such as you are using.

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50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

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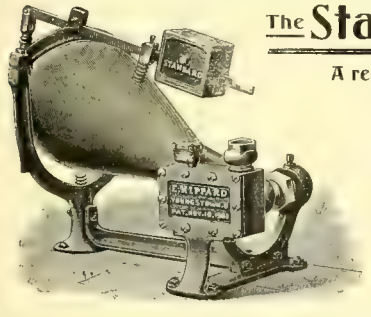
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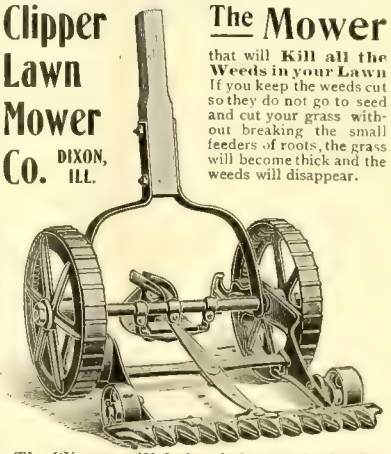
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The Mower

that will **Kill all the Weeds in your Lawn** If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No 1 12-in Mower, $5; No. 2 15-in. Mower, $6; No 3 18-in. Mower, $7, No 4—24-in. Mower, $8. Send draft, money order or registered letter.

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LILIES.
Plants and Cut Blooms. Hinode Florist Co., 5th St.
Woodside, N. Y.
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J. M. Thorburn & Co.,
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MASTICA.
Joseph Breck & Son, Boston.
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MOONVINES.
Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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MYRTLE.
J. A. Keeney, Monongahela, Pa.
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H. A Dreer Philadelphia,
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J. M. Thorburn & Co., New York.
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Vaughan's Seed Store, Chicago and New York.
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NEPHROLEPIS PIERSONI ELEGANTISSIMA.
2½ in pots. $9 per doz.; 50 plants at $60 each. 100 plants at $50 each; 500 plants at $45 each: 1000 plants at $40 each. Large plants, $18 to $60 per doz. F. R. Pierson Co. Tarrytown-on-Hudson, N. Y.
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ORCHID PLANTS.
Lager & Hurrell, Summit, N. J
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Julius Roehrs, Rutherford, N. J.
Cattleya Trianæ.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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PANDANUS VEITCHII.
J. A. Peterson, McHenry Ave., Cincinnati, O.

PANSIES.
100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100, $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

PATENTS.
E. G. Siggers, Washington, D. C.
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PLANTS DECORATIVE.
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Thorn Hedge Greenhouses, Newtown Sq., Pa.
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PUTTY.
Hammond Paint & Slug Shot Wks Co., Fishkill-on-Hudson, N. Y.
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RETAIL FLORISTS.
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Thomas Young, Jr., New York.
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Hardy Roses.
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Hardy Roses, H. T. Roses and Ramblers.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
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August Rolker & Sons, 31 Barclay St., New York.
English-Grown Roses.
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Rose Killarney. Siebrecht & Son, New Rochelle, N. Y
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
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C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

Eastern Nurseries, Jamaica Plain, Mass.
Hardy Roses.
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SCOTT FERN.
John Scott, Keap St. Brooklyn, N. Y.
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SEEDS.
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Schlegel & Fottler Co.,
26 S. Market St., Boston
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Conrad Appel, Darmstadt, Germany. Estab. 1789
High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y
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The Chicago Lifter.
J. C. Moninger Co., 412 Hawthorne Ave., Chicago

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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
James Hart, 117 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York.
Moltz, 55–57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.
John Young, 51 West 28th St., New York.
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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa

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PÆONIES
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SALVIA SPLENDENS.
S. W. Carey, Urbana, O.
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SPHAGNUM MOSS.
H. R. Akers, Chatsworth, N. J.
For page see List of Advertisers.

Greenhouse Glass

In a few weeks the American Factories go out of blast. Good Glass will soon be scarce and much Higher. We have a limited quantity on hand at present prices

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

In writing to advertisers, kindly mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers kindly mention HORTICULTURE

"One Spraying Enough"

"DISPARENE"

THE ONE INSECTICIDE that destroys all leaf-eating insects without fail; that adheres to the leaves for months undisturbed even by heavy rains, and NEVER INJURES THE MOST DELICATE FOLIAGE. Put up in sizes for 50cts., $1.00 and $4.25. Booklet free.

Also INSECT EMULSION For Green and Black Fly and Mealy Bug

"Add Water, and Spray"

BOWKER INSECTICIDE CO.

BOSTON NEW YORK CINCINNATI

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETED IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene,* and of course better than *ordinary Lamps*

The ANGLE LAMP is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light.* That tells all there is to be told about *good Light*

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

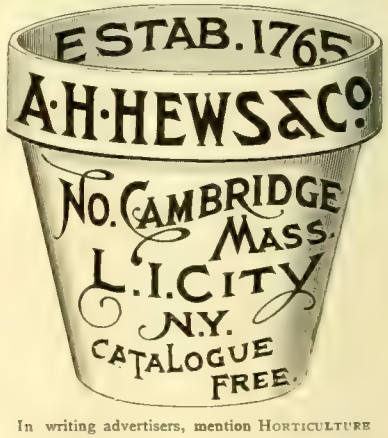
Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D.C.

In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

173 SUMMER ST., BOSTON

ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

GLASS Buy Now and Save Money

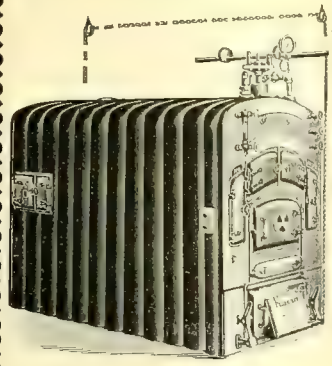
We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE



Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit at Five different Florists' Conventions.

Have a Record of 20 Years - - - Over 25,000 Furman Boilers in Use

They are made in many styles: Round, Sectional, Brick-set, Asbestos Covered, etc., and in sizes up to 85 horse power. Costing from $25. to $1,000. each, Net.
Write to-day for valuable Catalogue.
Special Net Wholesale Prices to Florists. Address

The Herendeen Mfg. Co. Dept. H. T. **Geneva, N.Y.**

BRANCH OFFICES
39 Oliver St., Boston
39 Cortlandt St., New York

WESTERN REPRESENTATIVES
Edw. S. Dean, Bloomington, Ill.
E. K. Barr, La Crosse, Wis.

In writing to advertisers, kindly mention HORTICULTURE

PUMPS Rider-Ericsson. Second-hand, from $40.00 up; all repairs; other makes; new; cheap.
BOILERS New and second-hand. 2 second-hand steam, first-class condition; will heat 1000 sq. ft. glass, at $35.00 each.
PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¾ cts.; 1¼-in., 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.
STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in. ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in., 1½-in., 2-in. pipe, $4.00.
PIPE CUTTERS New Saunders Pattern. No. 1 cuts ⅛-in.-1-in. pipe, $1.00. No. 2 cuts 1-in-2 in. pipe, $1.30.
STILLSON WRENCHES New. 18-in., grips ¼-in.-2-in. pipe, $1.65; 24-in., grips ¼-in-2½-in. pipe, $2 40; 36-in., grips ½-in.-3½-in. pipe, $4. 75.
PIPE VISES New. No. 1 Hinged, grips ⅛-in.-2-in. pipe, $2. 25.
GARDEN HOSE New. ¾-in., guaranteed 100-lbs. pressure, 7½ cts. per ft.; ¾-in. not guaranteed, 4¾ cts. per ft.
HOTBED SASH New. Cypress, 3-ft.x6 ft., from 70 cts. up; glazed, complete, from $1.60 up. Second-hand, as good as new, at $1.25 each.
GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75. Second-hand 10x12 at $1.40 per box

10x12 } B. Double at $2.40.
12x12 }

12x14 — 12x16 — 12x20 }
14x14 — 14x16 — 14x20 } B. Double at $2.60.
16x16 — 16x18.

16x20 }
16x24 } B. Double at $2.85

Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.
1398-1408 Metropolitan Av., Brooklyn, N.Y.

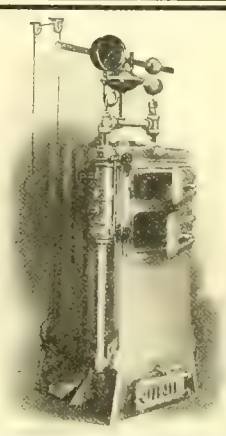
H. H. SYLVESTER
Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.



Scollay Invincible **Boilers**
—FOR—
Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay
73 & 75 MYRTLE AVE.
Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
Joseph Breck & Sons CORPORATION
AGENTS



We are the Manufacturers Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS CORPORATION
47-54 North Market Street
Boston Mass.

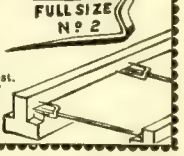
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GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

SEND FOR
New Green House Catalogue
JUST ISSUED BY
King Construction Co.
North Tonawanda, N.Y. and Toronto, Ont.

INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

Holds Glass Firmly
See the Point
PEERLESS
FULL SIZE No 2
Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.



Consult the Buyers' Directory on Pages 834 and 835 for information as to where to buy the right goods at the right prices.

Twemlow's Old English Liquid Putty STOPS ALL CRACKS and CREVICES in the Sash or Roof of the Greenhouse. Sold by Supply Houses in Chicago, Milwaukee, Detroit, Cincinnati, Indianapolis, Cleveland, Allegheny, Philadelphia, New York, Buffalo, Boston, Baltimore, Etc.
"Greenhouse White Paint" Made by HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.



Designed and erected for Judge W. H. MOORE, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

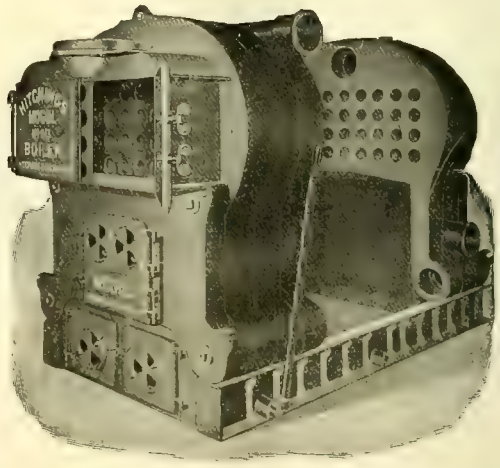
New York Office .... St. James Bldg., Broadway and 26th St.
General Office & Works ..... Irvington-on-Hudson, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOCUL



NEW MOCUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK — 233 Mercer Street
BOSTON — 819 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention HORTICULTURE

THE PIERSON-SEFTON CO.
Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.

We manufacture and erect every type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot-bed sash and frames. Special hand-made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



Exterior view of Flat Rafter House erected for Mr. W. P. Willis, Flushing, N. Y.

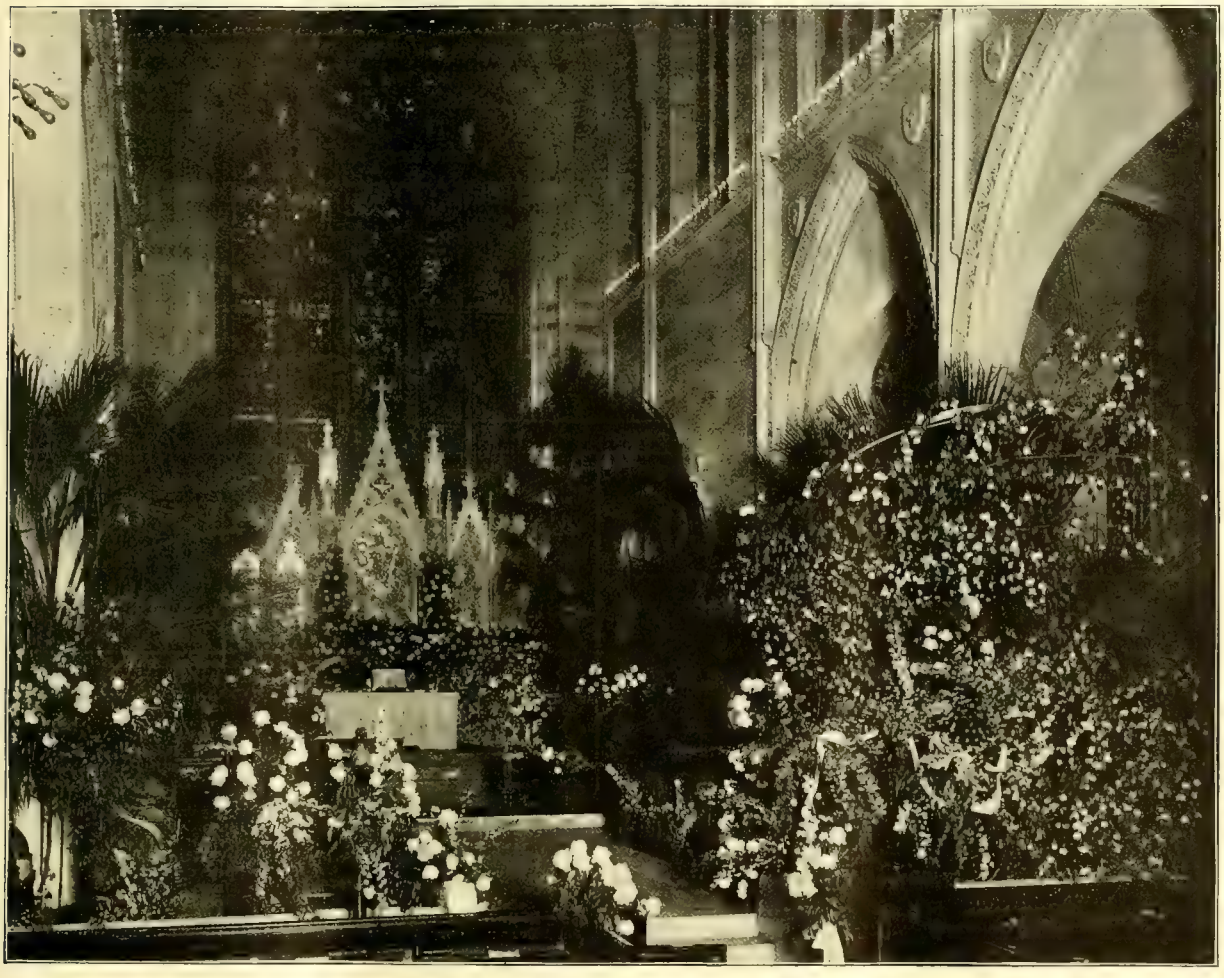


Interior view of Flat Rafter House erected for Mr. W. P Willis, Flushing, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

HORTICULTURE

Vol. I MAY 27, 1905 No. 26



A June Wedding

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00



Something New for Decorating

Now that the season for Wild Smilax is over and no more stock can be supplied, I wish to call your attention to the Branches of the Huckleberry Tree as a most elegant Decorative Green.

It is largely used by the Florists of the Pacific Coast, Washington, and Oregon, in Decorations. The Branches are FLAT, very thickly furnished with exceedingly lustrous green leaves, and it seems to adapt itself to almost any position in decoration that the Wild Smilax can be used in.

As the Introducer of Southern Wild Smilax, I think you can give me credit for knowing a good thing when I see it, and I am convinced that in Huckleberry Branches, you will have a very beautiful substitute for the Wild Smilax, of great value to you through the months of May and June.

I am anxious to get the Verdict of the Floral Trade on this introduction and offer to send you a Case on Suspicion, price $2.50 per case if it suits you, nothing if it does not. Will you try a case on these terms?

Yours very truly

CALDWELL THE WOODSMAN

The Man who gave you the Wild Smilax

Evergreen, Ala.

New Crop **Hardy Ferns** NOW READY
Fancies, $1.50 per 1000
Daggers, $1.25 per 1000

In writing to advertisers, kindly mention HORTICULTURE

H. M. ROBINSON & CO.

HARDY DAGGER FERNS
$1.50 and $2.00 per 1000

BRONZE and GREEN GALAX
$1.00 per 1000

Memorial Day

BOUQUET GREEN, $7.00 per 100 lbs.

SPHAGNUM MOSS, 50c per bag; $1.00 per bbl.; $3.00 per bale.

LAUREL FESTOONING, 5 and 6c per yard.

LEUCOTHOE SPRAYS, $1.00 per 100.

Florists' Supplies of all kinds, such as Milkweeds, Cape Flowers, Immortelles, Cycas Leaves, Ribbons, Cut Wire, Wire Designs, and all kinds of Letters.

Order Early OWING TO LATE SPRING, SUPPLY OF **Ferns Limited**

8 and 11 Province Street

BOSTON, MASS.

In writing to advertisers, kindly mention HORTICULTURE

HARDY HYBRID PERPETUAL ROSES

English-grown Stock, low budded on Manetti, now ready for delivery. Strong two-year-old plants

EACH $.35; DOZ. $3.50; 100 $25.00

ALFRED COLOMB. Brilliant carmine-crimson; large.
BARON DE BONSTETTIN. Velvety blackish crimson.
BARONESS ROTHSCHILD. Pale flesh pink; very fine.
BEAUTY OF WALTHAM. Bright light red.
BOULE DE NEIGE. Pure white; free-blooming, strong, vigorous habit.
CAPT. HAYWARD. Bright crimson.
CHARLES LEFEBVRE. Bright velvety scarlet.
CLIO. Flesh color, shaded in the centre with rosy pink.
DUKE OF EDINBURGH. Vermilion.
DUPUY JAMAIN. Very bright cerise.
EARL DUFFERIN. Velvety crimson, shaded maroon.
FISHER HOLMES. Rich velvety crimson.
FRANCOIS MICHELON. Deep rose.
GENERAL JACQUEMINOT. Brilliant scarlet-crimson.
GLOIRE LYONNAISE. Fine chrome yellow.
JEANNIE DICKSON. Rosy pink.
JOHN HOPPER. Brilliant rosy-crimson.
JULES MARGOTTIN. Bright cherry.
LA FRANCE. Bright lilac-rose; centre silvery white.
LOUIS VAN HOUTTE. Deep red, shaded with maroon.
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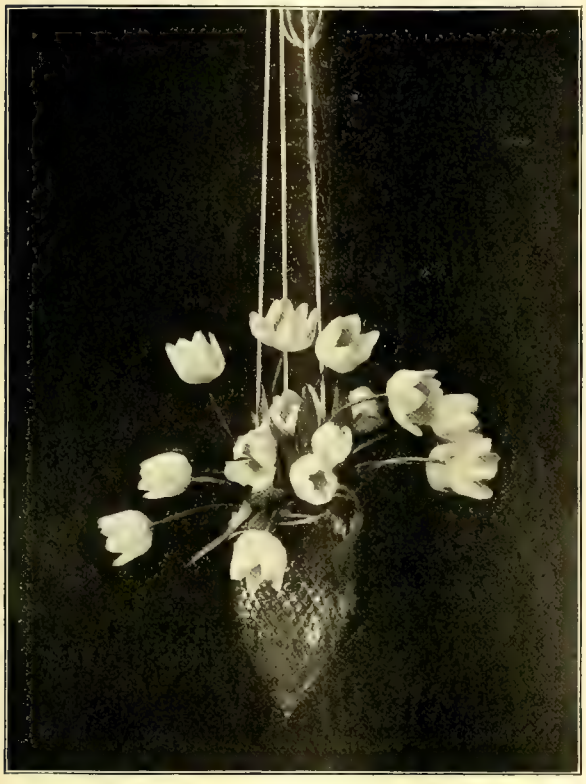
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The illustrations show two electric light globes suspended by silk cords. These globes can be had in many designs and a great variety of colors. Those in the illustrations are of cut glass. When perfectly clear and filtered water is used they are very effective. We frequently use these in our window to get high effects, often in front of mirrors where you get the reflection. They can often be used to good advantage in house decorations under chandeliers, etc.

H. H. Battles.

South American Horticulture

RIO DE JANEIRO

(Continued from last week's issue)

During my two months' occupation on this place I meditated in the soft evenings on the singular transformations of the landscape from noon to dark night. The landscapes around Rio de Janeiro were pretty evenings and mornings, from 4 o'clock in the afternoon until dark and from dawn to 8 o'clock in the morning, but not during the day. Sunlight will penetrate a palm, scatter light and shade and disturb the harmony of the plant, because of its extreme symmetry; besides this the intense tropical sunrays make the air thin, vacant, as it were, and without color, using this expression in a poetical sense. Landscapes certainly should be developed in the tropics for evening and morning views and pleasures but less for midday. There is no meal-time between half past ten and half past two P.M.; the people don't go out at midday and will not during that time be seen even on their own grounds. Colors cannot be used too much, for this reason, in Brazilian gardens; even the old-fashioned carpet beddings look less artificial, if they are frequently interrupted by palms, and yucca and cacti for instance, and if viewed in the late afternoon and evenings. Still, progressive Brazilians have already an idea, that carpet bedding ought to be discarded for massive flower beds and, while renovating this place, I was told by its owner, Sor. Ferreira, a manufacturer of Rio, that no alternanthera carpet-bedding was desired by his wife, but abundant pinks, pansies violets, daisies, and other northern favorites.

When I had time I went out to the bay, sometimes in the morning, sometimes at night to enjoy the sunrising and sunset over the harbor. The most magnificent flames of light lit up the horizon, here shaded, there reflected again, in dark crimson, yellow, lilac, purple, and olive in the clouds, floating over the soft white and rose painted rooftops of the crescent-shaped city across the bay; green, palm-covered islands dispelled the slightest monotony in the harbor, which is boasted of as capable of furnishing anchor places for the fleets of all nations in absolute safe waters. Some of the bays are lost sight of between protruding mountain banks, the over-hanging perfect plant-green domes reflecting the green of the shore vegetation, caught in the mirror of the bay. Some days I would stroll along the fashionable suburb avenues south of the capital up to Paquet's and watch the bathers by Aurora's earliest light, as they ran from their near-by houses, small and big, senhor and senhora in bathing suits and immense towels around them, for a plunge into the breakers.

Gerhard Fleicken.

British Horticulture

A TOWN OF GLASS

Within about twenty-five years an important fruit-growing industry has sprung up at Worthing, a salubrious Sussex health resort, about ten miles from Brighton. On three sides of the town are to be seen miles of glass houses. The largest of the number is a three-quarter span house, 861 feet long by 20 feet wide. There are over eighty master fruit growers, whose houses placed end to end would extend more than thirty miles. The superficial area of the glass used in the roofs extends to over three and one-half million feet. The glass spread out would cover 81 acres. There are 136¼ miles of hot water piping. Worthing is noted for its grapes, and owing to the mildness of the climate the growers are able to forestall the nurserymen around London in capturing the early market. Grapes have been supplied to the royal tables from this district, and some splendid samples were conveyed on the *Ophir* when the Prince and Princess of Wales journeyed around the world. At one time immense quantities of tomatoes were grown here, but there has been a falling off of late years, owing to foreign competition and other causes. Some of the finest early strawberries which fetch fancy prices are raised here, whilst chrysanthemums, roses, pelargoniums, etc., form an important part of the trade. Of late, prices of ordinary produce have been low, and matters are not so rosy as formerly.

GREEN FIG CULTURE

At West Tarring, about a mile from Worthing, is to be seen an ancient garden, where Archbishop Thomas a'Becket is reported to have planted the fig trees which he brought from Italy. A fine old White Marseilles tree is believed to be a descendant of one of those planted by the Archbishop. There are about one hundred trees, chiefly Brown Turkey; these are allowed to grow naturally, and they form a sheltering grove. The gardens are more of the nature of a "show place," but I found on the occasion of a recent visit that the principal orchards for commercial fig growing were in the occupation of Messrs. Inkpen, at Sompting, a village three miles to the northeast of Worthing. This firm have gained the highest award for their fruit in a competition open to the growers throughout the country. Some of the trees over-reaching the pathway in the main avenue are over one hundred years old. The Brown Turkey variety is grown, and in one year, 4,000 dozen have been secured. The out-spread branches of the biggest tree in the orchard cover a circumference of about seventy feet. Some of the large trees yield twenty-five dozen fruit a day, for which there is a good demand not only about Covent Garden, but also in the neighboring seaside towns. The method of culture is very simple. The manure taken from the cucumber houses is used for the trees. Undoubtedly the great advantage is in the mild and equable climate.

BULB GROWING IN LINCOLNSHIRE

The Dutch bulb growers have strong competitors in Lincolnshire, where the soil of the fens is found so well adapted for successful culture. The week before Easter the growers were kept busy in sending away tons of bloom. They have experienced an exceptionally good season. Owing to Easter falling late, the Penzance, Scilly, and Guernsey supplies became shorter, and the Lincolnshire growers were able to harvest their acres of bloom to advantage. One of the pioneers in the business in the Spalding district is Mr. Richard Wellband, who has twenty acres of land, principally under bulbs. Mr. Wellband bought Weardale Perfection, the largest and grandest of trumpet daffodils at £10 a bulb and Madame de Graffe at £4 10*s*. a bulb, when they were little known in the district. He is a firm believer in the good qualities of the last named. Mr. Wellband also extensively cultivates Gloria Mundi, Glory of Leiden, and other kinds. Great attention is paid to the gathering and bunching. "If the bloom is carefully arranged in long bunches resembling a gladiolus spike," Mr. Wellband states, "they make as much as 1*s*. a dozen bunches more than if done up in a careless way. The leading growers are waking up to this now, and are giving higher pay to those who can arrange them the best." Some of the Dutch growers intend seeing what they can do on English soil, land having been secured near Wisbech, where Messrs. Bath & Sons, Ltd. carry on a successful bulb nursery.

JAPANESE GARDENING

The success of the Japanese in their prolonged struggle with Russia has given a vogue to everything relating to the "land of the chrysanthemum." It was not surprising, therefore, to find considerable interest aroused this week in a paper read by Mr. James Hudson, V. M. H., head gardener at Gunnersbury House, Middlesex, on the making of Japanese gardens in England. He described the method in which the Japanese garden at the residence of Mr. Leopold de Rothschild had been made under his direction during the past four years. The object had been to provide a garden after the Japanese style, which would be at its best in August, September, and October, when the family were in residence, and spring flowers had not been available. He had not considered it necessary to adhere to the style of garden so often seen illustrated as representing the Japanese system, and from photographs he had seen, he believed this did not represent all the phases of Japanese gardens. From the results achieved at Gunnersbury it was evident that very many Japanese plants might become general in England. Amongst the chief of the many points brought out by Mr. Hudson were that shelter should be provided, that a liberal supply of water should be secured, and that shade-loving plants as well as those preferring sunshine should be provided for. At the next meeting of the Society, Mr. N. Hayashi will speak on "Japanese horticulture," and Mr. R. E. Farrer on "Japanese plants and gardens," and the exhibits will be in accord with these subjects.

W. H. Adsett.

London, England.

Impatiens Holstii

I was glad to learn from your report appearing in Horticulture recently — of the exhibition at Boston — that Robert Cameron of the Botanic Garden, Cambridge, Mass., had exhibited a plant of the new variety heading this note. There are three plants now in bloom in Girard College greenhouses. The seed did not germinate very well — only four plants resulting from a packet of seed.

It is over twenty years since I first realized how good a plant the Impatiens Sultanii was for window gardening, when I passed a house quite frequently where was one of these plants in bloom all the time.

Quite a number of plants of the original Sultanii and a variety with salmon-pink flowers, have been distributed during the past few months in the class rooms and other rooms connected with Girard College — and grown as window plants, and very satisfactory they have proven.

The new Holstii comes as a valuable and welcome addition to this class of plants. On seeing the first flower of this new comer I had to raise my hat, so favorably did it impress me. It is salmon, overlaid with scarlet, giving it a very brilliant appearance. It is said to be an excellent bedding plant, which I can readily believe, provided it is given a sunny situation in soil not too rich.



Impatiens Holstii

There is no reason that I know of why it should not make a good flowering plant for Christmas, as well as for Easter, if there is nothing in the way of its blooming at that gay and festive season of the year.

Edwin Lonsdale

The Cultivation of Greenhouse Lettuce

In large cities there is such a demand for early market garden produce that the forcing business around these points has reached very large proportions. Among those vegetables put on the market extra early lettuce holds first place.

The cultivation of this tender salad is attended with many trials, for perfect plants must be produced and it takes years of experience before a grower can count on continued success. Even then there will be some loss because of the large number of fungus foes and the sensitiveness of the plant itself.

The seed is sown about the first of January, in boxes of clean soil, and pricked out into flats of rich, sandy loam when the true leaves appear. When large enough they are again transplanted into benches or beds, solid beds preferred, and kept growing steadily until ready for market. From the first a constant fight must be waged against fungus pests, the lettuce being attacked in all stages of its growth. By thoroughly sterilizing the various soils used, to 160 degrees Fahrenheit, many diseases can be averted — as the Rhizostonia and the "Drop," that dreaded scourge of lettuce growers. Sterilization should be practised in every case.

In guarding against disease prevention is the whole story and consists in supplying the best environment from start to finish. Lettuce is so delicate that any carelessness on the part of the grower will be reflected upon the crop. The greatest aid to development and propagation of disease is water, hence a crop should be brought through without a single watering. This can be done by using a solid bed, thoroughly soaking it down before the plants are set out. There will be plenty of water to carry the crop through and the roots will have no difficulty in finding it.

Very frequent and shallow cultivation must be kept up to the end. The surface of the soil will become as dry as dust, a medium not at all favorable to spore or fungus development. Keep the air moist by wetting down the walks, and give plenty of ventilation. Avoid checks of all kinds.

Beware of a too high temperature at night, 35 to 45 degrees being sufficient, but during the day it may run up to 80 or 90 degrees during a series of bright days without danger, but must never get that high immediately after a period of cloudy weather.

In this way a crop of lettuce can be raised far more successfully than by the old methods of watering every day or two.

R. L. Adams.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

R. L. Adams, HORTICULTURE's bright representative at Amherst Agricultural College, has been chosen one of the six Commencement speakers, selected for their standing. We are glad to record it for we know the honor is worthily given.

As vacation time approaches, it is well to bear in mind that, in a business so exacting in its busy season as is that of the florist, nurseryman or seedsman, the employes are justly entitled to a good relaxation period. Liberality in this direction will not be forgotten by the beneficiaries when the rush time is on again.

The temptation to keep open shop Sundays and late evenings is very strong in the florists' business. That there are times when this is unavoidable is all the more reason for abstaining when possible. Unfortunately the good intentions of the majority are often thwarted by the selfish obstinacy of one or two individuals, and so we find in many places flower establishments open far into the night and all day Sunday for no other reason than that competitors are doing the same thing. As a rule we have found the florists' clerks to be willing, uncomplaining workers on holidays and at all other times when the exigencies of the business demanded over-time toil and it should not be necessary for them to ask that a reasonable closing hour be generally adopted and that, except in emergencies, Sunday opening be abandoned.

An unprecedented demand has been experienced this season by dealers in ornamental nursery stock. The clean-up is so complete that acceptable sizes of many desirable things cannot be furnished. It must be some time before the home-grown product will equal the demand and in the meantime we shall be forced to depend largely upon foreign sources of supply which, also, are being rapidly depleted of their best stock. Unfortunately, foreign-grown material has suffered in reputation because of the quantities of soft-grown stock totally unfitted to withstand our climate, which have been sent here, causing much disappointment to the planter. Growers on the other side and importers on this side can do much to restore confidence by studying existing conditions and restricting their dealings to stock of unassailable quality. That there will be a call for much more in certain lines than our American nurserymen can produce for a number of years to come cannot be doubted.

A movement is on foot in New York City, looking to concerted action among the wholesale flower dealers to better regulate the methods of credit giving. The present system — or lack of system, rather — is the outcome, in part, of conditions prevailing in the retail trade. It is notorious that many people accounted liberal flower-buyers go out of town at the close of the season leaving florists' bills unpaid. This class of people, as a rule, will resent any request for monthly settlement and florists catering to this sort of trade give encouragement to this attitude by presenting bills only at long intervals — some annually — being reluctant to do anything that may lead a large buyer to transfer his business elsewhere. The result is that retailers are soon heavily indebted to the wholesaler and those who are able to make prompt payments are rare. The wholesale dealer, being obliged to make regular settlements with his growers, has found the burden so heavy that all begin to realize it is time to call a halt, and sentiment now seems to be rapidly crystallizing in favor of the adoption of a time limit within which wholesale accounts must be paid. Fair-minded retailers have promised their coöperation in what is generally recognized as an imperative reform, and all that is now required is that a sufficient number of the commission dealers and wholesale market men get together, make a reasonable agreement and then stick to it. If it can be brought about that prevalent loose methods are abolished it will be a big boon to the florists' business in every department.



Do you like HORTICULTURE? Then order it for your employees; tell your friends about it; or send us their names and we will mail sample copies to them. The larger our subscription list, the better paper we can afford to give you. The interests of HORTICULTURE and its READERS are mutual.

If you have orders to give for any flowers, plants, or horticultural material of any kind, do not fail to give HORTICULTURE's advertisers a chance. The best houses are represented in our advertising columns.



After Adjournment

Easigold, F. W. Fletcher's new yellow chrysanthemum has made for itself a good reputation among the commercial growers about Boston, and will be grown this season in considerable quantity by a number of the most extensive planters. It is a seedling from J. E. Lager, and comes in from October 8 to 15.

Savannah, Ga., May 11. — Dennis Tapley is an afflicted young man of this city who has for years, though bowed and bent by disease, sold key rings in one of the squares, stamping upon the rings the names of those who buy.

He has suddenly sprung into public notice through his assertion that he has discovered a secret that has been concealed from naturalists and florists for all the ages — the secret of growing a coal black rose. Tapley declares he has perfected his method, and that he can raise a rose as black as the raven's wing. This, he asserts, he does without the use of chemicals. He has named his rose the Mourning rose and says he expects to sell the secret for $10,000. — *Miami Record.*

Ah! me-ah-me!

WHOLESOME CHESTNUTS

If you have anything to sell tell everybody what it is, and what you want for it, through HORTICULTURE, and if you do you will soon be sold out.

Don't plant everything the same as you did last year and the year before; people like changes in formation and planting for the same reason they like changes in other things.

Set aside a part of the garden for a promiscuous collection which you can cut from without marring the looks of things much.

If you have plenty of coal don't abandon fireheat too soon; better have a notch of air on at night and a little fireheat for fruit; especially keep dusting sulphur on the pipes to prevent mildew, but don't burn it; if you do you will be sorry next morning.

Thin grapes carefully and well at first; it makes bad working going over them the second time.

Go ahead with planting now; from this time forward most things intended for the ground are better there than anywhere else.

Have you a Baby Rambler in your possession? if not, get one or two or more; they are bright little things.

Do you know a gardener foolish enough to be without a gardening paper? if you do just show him HORTICULTURE; that will settle it.

Try thinning out-door fruit as you do fruit under glass; you will have a big job on your hands and big fruit in them later on.

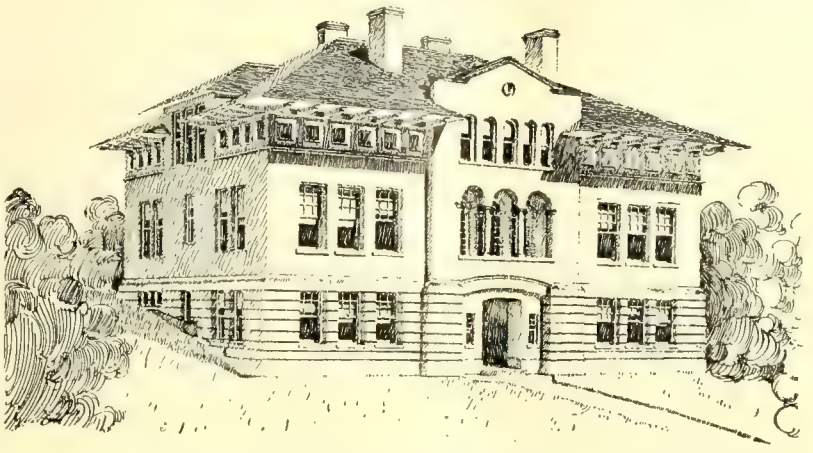
Give calceolarias plenty of pot room; if not, they will get mad and flower too soon by way of letting you know it.

Get your window boxes ready and filled; keep them in a sheltered place for a few days after filling and they will stand it better by so doing.

Don't buy cheap plants; the cheapest in any commodity is often the dearest in the end and it is especially so with plants and seeds.

Our frontispiece shows a decoration of pæonies and summer roses for a June wedding in Grace Church, New York City. The peonies were used with long stems and foliage and the roses were also cut in large branches and used in loose, unconventional arrangement. A torchè of roses adorned each pew end, on the main aisle. J. H. Small & Sons were the decorators. In the use of such material for bold or dainty effects this firm has few equals.

New Horticulture Building for M. A. C.



With the signature of Gov. Douglas on May 17, the final step was taken in the appropriation of $68,000 for the Mass. Agricultural College at Amherst. Special interest is attached to this as $39,000 is for a new building to be devoted entirely to horticultural interests.

The building is to be a modern, fireproof structure throughout, about 50×70 feet, built of brick, with a tile roof, and heated from the central heating plant of the college. The basement story is to contain two class rooms, one large laboratory, and rooms for storage, coats, instruments, etc. On the main floor are two offices, a record room, a laboratory, a library, and a museum. The drafting room for the landscape-gardeners occupies the third floor, with a class room, private laboratory, photographing and dark room, and janitor's quarters. The whole arrangement is compact, convenient, and especially adapted to the object for which it is intended.

That the college has long needed such a building no one is better aware than the students themselves. Cramped quarters and lack of apparatus are not conducive to the best results. The only fault that can be found is that it wasn't granted a year ago, so that the present senior class could benefit by it. Out of a graduating class of thirty, twenty-three are taking horticulture, floriculture, or landscape-gardening.

Obituary

The many personal friends in this country and abroad of Mr. Thomas Smith, of the firm of Smith Brothers, Nurserymen and Seedsmen, of Uitenhage and Port Elizabeth, South Africa, will learn with very sincere regret of his death at Sibsey, near Boston, on Sunday evening last, in his 47th year. The sad event occurring so soon after the demise of his brother Richard, another member of the firm who passed away at Aliwal North on March 26th, in his 50th year, deep sympathy will be felt for their surviving brothers and sisters in this country and in Uitenhage. Mr. Tom Smith was a native of Skirbeck, Lincolnshire, and before going out to South Africa in the early seventies was for a time employed in the old Wellington Road Nurseries, St. John's Wood, under Mr. James O'Brien. His late brother Richard went out about 1875, and the two brothers started a nursery business in Nelson Square Gardens, Port Elizabeth, and subsequently, being attracted by the splendid water supply at Uitenhage, established themselves there, where they were joined by their youngest brother, Walter, now the only surviving partner. With great energy and industry they built up perhaps the most extensive and flourishing business of its kind in the colony, soon became large importers and exporters of British and South African plants, seeds, and bulbs, and prospered amazingly until the war for a time seriously curtailed their energies. Mr. Smith was on a business trip to the old country, but was not well when he landed in December last, and a bad attack of jaundice ensuing, the end came which all who knew him so deeply deplore. — *Nurseryman and Seedsman, London.*

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

Jack Frost is still working. Reports from the country towns show much damage. Beans and corn on many places in Wellesley have succumbed, and Smith of Tewksbury reports icicles an inch long hanging from his asters.

A meeting of the managers, captains, and treasurers of the ball teams was held in Music Hall Market, Thursday, May 25 to complete arrangements for the picnic and ball game at Montgomery's field in Natick, Saturday, June 3. It is an assured success. Bear in mind, however, that every ticket sold adds to the pleasure to be afforded. I give a list of the Music Hall Market team, subject to correction.

McAlpine, p.; Wood, c.; S. Capers, 1 b.; McFarland, c. f.; H. Capers, 2 b.; Matthews, 3 b.; H. Ward, s. s.; Holden, l. f.; Rough, r. f.

Many have noticed and admired the superb specimens of Richardia Elliottiana displayed in Thomas F. Galvin's window. These were grown by J. Tailby & Son, and are the descendants of the original sent by H. M. Stanley from Africa. Three of the original bulbs came to this country, being purchased by Messrs. Tailby, Hunnewell, and Ames for about $150. Mr. Tailby has grown them in quantity for the last six or eight years. They are given about the same treatment as the common Richardia, but differ from them in the flowering, which is only once a year. Mr. Tailby recently sold his entire stock of his new yellow hybrid calla to a firm whose name he is unable to divulge.

THOMAS F. MATTHEWS.

NEWS OF THE CLUBS AND SOCIETIES

ST. LOUIS FLORISTS' CLUB

Preliminary list of premiums to be offered at the St. Louis Flower Show, given under the auspices of the St. Louis Florists' Club, November 7, 8, 9, 10, 1905.

Executive Board: Fred C. Weber, E. W. Guy, Theo. Miller, Fred H. Meinhardt. Otto G. Koenig, Manager, 6471 Florissant ave., St. Louis, Mo.

CLASS 1. — SHAW PREMIUMS. — Group named palms, 1st prize, $75, 2d, $50, 3d, $25. Group named ferns, 1st, $35, 2d, $25, 3d, $10. Group 15 named begonias, 1st, $15, 2d, $10, 3d, $7. Group 15 named berried plants, 1st, $8, 2d, $5. Group 12 named cyclamens, 1st, $6, 2d, $3. Group named cactus, 1st, $15. Group 25 blooming plants, excluding chrysanthemums, 1st, $15, 2d, $10, 3d, $6. Group 12 named geraniums, 1st, $10, 2d, $8, 3d, $4. Specimen decorative plant 1st, $10, 2d, $8, 3d, $5. Specimen araucaria, 1st, $5, 2d, $3. Specimen areca, 1st, $5, 2d, $3. Specimen kentia, 1st, $5, 2d, $3. Specimen latania, 1st, $5, 2d, $3. Specimen pandanus, 1st, $5, 2d, $3. 25 chrysanthemums grown to single stem, 1st, $20, 2d, $15. 3 specimen chrysanthemum plants, 3 varieties, 1st, $20, 2d, $15. Best plant of decided merit for cultivation, not previously an article of North American commerce, and introduced to such commerce by exhibitor during the year in which said award is made. Shaw Gold Medal, value, $25.

The "Shaw Premiums" are offered by permission of the Trustees of the Missouri Botanical Garden, under provision of the will of the late Henry Shaw.

CLASS 2. — CHRYSANTHEMUM PLANTS. — Specimen white, 1st prize, $10, 2d, $8. Specimen yellow, 1st $10, 2d, $8. Specimen pink, 1st, $10, 2d, $8. Specimen any other color, 1st, $10, 2d, $8. Specimen standard, 1st, $10, 2d, $8. 3 standards, 3 varieties, 1st, $25, 2d, $15. 12 plants, grown to single stem, 1st, $10, 2d, $7. Group arranged for effect, not less than 50 nor more than 100 square feet, 1st, $35, 2d, $25.

CLASS 3. — CHRYSANTHEMUM BLOOMS. — 25 one variety white, 1st prize, $15, 2d, $12. 25 one variety yellow, 1st, $15, 2d, $12. 25 one variety pink, 1st, $15, 2d, $12. 25 one variety red, 1st, $15, 2d, $12. 25 one variety any other color, 1st $15, 2d, $12. 48 blooms, eight varieties, 6 in each vase, 1st $25, 2d, $20. 6 one variety white, 1st, $25, 2d, $20. 6 one variety white, 1st, $4, 2d, $3. 6 one variety yellow, 1st, $4, 2d, $3. 6 one variety pink, 1st, $4, 2d, $3. 6 one variety bronze, 1st, $4, 2d, $3. 6 one variety any other color, 1st, $4, 2d, $3. 50 blooms, twenty-five varieties, short stem, on mossed tables furnished by the club, 1st, $25, 2d, $15. 100, one variety, any color, 1st, $100, 2d, $75, 3d, $50.

CLASS 4. — ROSES. — 100 American Beauty, 1st prize, $100, 2d, $75, 3d, $50. 25 American Beauty, 1st, $12, 2d, $8. 25 Richmond, 1st, $12, 2d, $8. 50 any other red, 1st, $12, 2d, $8. 50 Bridesmaid, 1st, $12, 2d, $8. 50 Bride, 1st, $12, 2d, $8. 50 Golden Gate or its sports, 1st, $12, 2d, $8. 50 Madam Abel Chatenay, 1st, $12, 2d, $8. 50 any other variety, 1st, $12, 2d, $8. 6 varieties, not less than 25 blooms each, 1st, $35, 2d, $25.

CLASS 5. — CARNATIONS. — 50 white, 1st prize, $6, 2d, $4. 50 light pink, 1st, $6, 2d, $4. 50 dark pink, 1st, $6, 2d, $4. 50 scarlet, 1st, $6, 2d, $4. 50 crimson, 1st, $6, 2d, $4. 50 variegated, 1st, $6, 2d, $4. 50 any other color, 1st, $6, 2d, $4. 50 blooms, 25 or more varieties, seedlings admissible, 1st, $6, 2d, $4. 100 scarlet, (Special prize), $25. 100 variegated, (Special prize) 1st, $15, 2d, $10. Seedlings admissible.

CLASS 6. — FLORAL DISPLAYS. — Table decoration, 1st prize, $75, 2d, $50, 3d, $35. Handle basket of roses, 1st, $35, 2d, $25, 3d, $15. Handle basket of carnations, 1st, $20, 2d, $15, 3d, $10. Violet handle basket, 1st, $15, 2d, $8. Floral arrangement, 1st, $35, 2d, $25, 3d, $15. Bridal bouquet, 1st ,$25, 2d, $15, 3d, $10. Table bouquet, 1st, $15, 2d, $10, 3d, $5. Hamper of flowers, 1st, $10, 2d, $5. 50 American Beauties, arranged for effect, accessories admissible, 1st, $50, 2d, $35. Display of lily of the valley, 1st, $12, 2d, $8.

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of the Newport Horticultural Society was held Wednesday evening May 17th., President Sullivan in the chair. The Secretary presented the society with a silver cup, the gift of Miss Alice Keteltas, to be awarded to the best and most original exemplification of a gateway decoration at the Society's June exhibition. The cup was received with many expressions of appreciation mingled with subdued avowals of intentions of attempts at its capture, each one wishing the other success of a Lipton and no more. J. K. Sullivan offered a prize of $25. for the best table decoration of dahlias, and Thomas G. Owen $10. for a vase of gardenias. Mrs. Perry Belmont, through Mr. John Marshall, offered a silver cup for the best table of decorative foliage plants, each plant to be serviceable as a table plant, to be competed for at the June exhibition.

These items show the way the wind is blowing. Newport is chuck full of people who are awakening to a realization of the fact that the organization doing the most to boom the city is the Horticultural Society. And the end is not yet.

J. K. M. L. Farquhar of Boston was present during the early part of the evening, and to the great disappointment of those present, just as the president was about to ask him to address the members, he took his departure announcing that he had to return on the train about starting, but Mr. Farquhar promised to address the Society at one of the summer meetings.

The dates for the coming exhibitions as finally fixed are as follows: June exhibition — June 27, 28, 29; September 11, 12, and 13, in the Casino.

Premium schedules and entry blanks can be had on application to the secretary.

DAVID MCINTOSH.

Ledge Road, Newport, R.I.

AMERICAN ASSOCIATION OF NURSERYMEN

The program committee begs to announce that Assistant Secretary Willet M. Hays, of the Department of Agriculture, Washington, D. C., has consented to be at our convention at West Baden Springs, June 14th-16th, and will talk on plant breeding. We feel that his presence will materially increase the interest of the meeting and I trust the attention of all the nurserymen will be called to the matter and others interested largely in fruit growing. It is expected he will speak Thursday evening, June 15th, at 7.45 P.M.

HARLAN P. KELSEY, *Chairman.*

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The New England Passenger Association has authorized a rate of one and one-third fare on certificate plan, in coöperation with rates announced by Trunk Line Association, for persons attending the S. A. F. convention at Washington, D. C., August 15–18, 1905.

WM. J. STEWART, *Secretary.*

MENLO PARK HORTICULTURAL SOCIETY

The fourth floral exhibition of the Menlo Park Horticultural Society, Menlo Park, Cal., held last week, was one of the most successful in the history of the society. The exhibitors were among the most prominent people in the State.

The grand display of roses from the estate of James L. Flood was very prominent and the subject of much favorable comment. Probably the most attractive feature of the show was the table decoration by Andrew McDonald, gardener for J. B. Coryell. It was of orchids and farleyense ferns and carried off the first prize. W. H. Crocker of Burlingame showed a collection of flowering shrubs. He is the possessor of the finest collection on the Pacific Coast. The roses from the conservatories of Timothy Hopkins, S. E. Slade, C. W. Smith and J. Henry Meyer occupied the center of the hall. The exhibit of herbaceous plants made by G. A. Pope of Burlingame, carried off first premium. Joseph B. Coryell made a display of rhododendrons which was greatly admired. Mr. Coryell has the most complete collection of rhododendrons in California.

The hall was thronged all afternoon by the leading society folk of the county.

AMERICAN ROSE SOCIETY

A meeting of the executive committee of the American Rose Society will be held at Hartford, Conn., on Monday, June 19. The rose garden in Elizabeth Park will be in full glory at that date and a visit of inspection under the guidance of Superintendent Wirth and the members of the Hartford Florist Club will form a part of the program. Important business concerning the welfare of the society will also have attention. Communications for the committee should be addressed to the secretary's office, 11 Hamilton place, Boston.

WM. J. STEWART, *Secretary.*

NOTES

The regular meeting of the Rhode Island Horticultural Society was held May 17, when W. H. Tarbox read an interesting paper on the aster.

The New Haven County Horticultural Society awarded a certificate of merit to W. J. Rowe for a seedling canna exhibited at its May meeting. Arrangements are being made for the annual outing in conjunction with the Hartford Florist Club in August.

The Melrose Amateur Gardeners' Society, which has become so important a factor in the improvement and beautifying of Melrose, is now making plans for the June exhibition, which will be given in Hawthorne Hall on June 17.

ROSE "DANMARK" (HYDBRID TEA)

By Pierre du Plony in "Journal des Roses"

This rose was raised and given into commerce by M. Zeiner-Lassen in 1890. It is a hybrid tea, an accidental cross of La France, from which it has inherited all its characteristic features except that the color is a little more red in the center. The plant, although well furnished with foliage, is also a little less vigorous than La France, but, however, flowers in very great abundance. The flowers, like those of La France, stand erect and are very fragrant.

Altogether it is certainly a good variety for cultivation in a general collection of roses.

OUTDOOR ART AND CRAFT

The Hillhouse estate in New Haven has been purchased for Yale University by graduates of the college, at a cost of $500,000. The property is secured with a special view of meeting the needs of the forest school and of the botanical garden.

It is expected that President Roosevelt will soon issue a proclamation setting aside about 10,000,000 acres of land in Idaho as a forest reserve. The proposed withdrawal of the land in question has been the subject of much animated controversy in Idaho for several months.

In a statement issued May 11, the Greylock park commissioners say they have acquired 1113 acres and that there are 287 more to be bought with the last appropriation of $14,000 from the legislature. Several hundred acres of forest were rescued just in time from voracious lumbermen.

Rhododendron (Azalea) Schlippenbachii, a new introduction, is blooming beautifully on the Palmer estate at Stamford, Conn., at the present time. The habit of the plant is similar to that of Azalea Mollis but the leaves are different from those of any other azalea, being very large, broad at the top and not unlike the foliage of the white oak. The flowers, borne in clusters, are apple-blossom pink fading to white in the center and spotted with brown at the base of the upper segments. The blooms are about 2½ inches in diameter.

Circulars have been issued by the School of Horticulture at Hartford, Conn., calling attention to the opportunity offered for study and employment for school children during the summer months.

The lessons and the various features of the course given in gardening are recounted in detail, especial attention being given to the habits of industry and close and systematic observation taught children by this out-of-doors employment. The course began about the first of May and will continue until the middle of September. The educational excursion will be held about the first of July.

A meeting was recently held to consider methods of safe-guarding the shade trees of the city of Montreal from the ravages of the tussock-moth. Dr. Fletcher of Ottawa with Professor Penhallow of McGill University, pointed out the life history and the destructive character of these insects. There was a diversity of opinion as to the threatened danger, but a general feeling that steps be at once taken to prevent serious injury to the trees which are the pride of the city. A suggestion was made that prizes be offered to children for collecting the eggs. The city council, however, thought that the trees might suffer damage in this way, and the subject was left in the hands of the park committee.

A. B. Kirkland of Reading, Mass., has been appointed by Governor Douglas, superintendent for suppressing the gypsy and brown-tail moths, and the appointment has been confirmed by the Council. Mr. Kirkland is recognized as the best-informed man in this country on the subject and his selection for this important position is looked upon as eminently wise. Mr. Kirkland has been for a number of years connected with the Bowker Fertilizing Company. His services as a lecturer on insect problems have been in constant demand and he has written a number of books on entomological subjects. He is a man of indomitable industry and charming personality. The State is to be congratulated on securing him.

NO MOTH PARASITES FOR MASSACHUSETTS?

Moth expert Koebele, who has been successful in finding parasites for many of the most destructive insects, is soon to visit Massachusetts.

But he will receive no encouragement from the State. Forester Ackerman will not enter into any alliance with him for introducing here any parasite for the gypsy or the brown-tail moth.

Should Mr. Koebele be invited to introduce his moth parasite here, the invitation will come from private interests such as Mr. Bowditch and his associates in the anti-moth campaign, or from individual organizations.

In discussing the subject recently, Forester Ackerman said bluntly:

"I have planned no arrangement with Mr. Koebele, and shall not. When Prof. Marlatt was here he advised against the serious consideration of moth parasites because their introduction and propagation take so long. Prof. Marlatt is a sufficient authority. Of course, if the moth appropriation bill passes, then the superintendent who has the work in charge may consider Mr. Koebele's offers, but I shall not. Even if the parasites were to be introduced now, five years would be required before they would be operative, and by that time there might not be any moths."

What the State officials are striving to guard against is the appearance of any parasite, which, like the boll weevil parasite in the south, might become a curse instead of a blessing. They fear (since they are confident that the legislature will appropriate money for suppressing the gypsy moth) that a moth parasite, having no moths for food, would themselves turn to the trees or to other vegetation as the moths have done.

Mr. Kobele left Fiji, April 26, and is now en route for this country. Some years ago he claimed that there is in Austria a parasite which will eat the gypsy moth. — *Boston Advertiser.*

It is reported that Mr. Ackerman, the state forester, dosen't believe in parasites to destroy gypsy and brown-tail moths, and will have nothing to do with Mr. Koebele, who has been devoting years to finding their natural antagonists, and is coming this way to introduce them. What Mr. Ackerman does intend to do remains to be seen. He is quoted as saying, "Even if the parasites were to be introduced now, five years would be required before they would be operative, and by that time there might not be any moths." That is very good; and if the whole matter were let alone, such would very likely be the result. Insect scourges sweep over the country and devastate herbage and foliage; and they are gone. The history of agriculture and horticulture is crowded with such raids, and every farmer worthy of the name (there are too few of them) knows how he must personally guard his own trees. It will be found, eventually, that Nature's balances are the truest, that Nature's cures are the surest. For an essential, we should say: Protect the birds — bring back the birds, yes, bring them back — for there are not a tenth as many of them as there were forty years ago. There ought to be more stringency in the laws against shooting or otherwise killing birds. It ought to be possible for the police to explore the pockets of the pot-hunting Italians, who are depleting the song-birds for their stomachs. Without birds, civilization drops to the level of the pot-hunter, and agriculture and horticulture are ruined. Humanity depends on birds — for so depends the disposal of all noxious insects, like these various moths and beetles. The chief factor in the disappearance of the elm-leaf beetle has been the birds — spraying has been of very small importance, except to save individual trees. — *Springfield Republican.*

GYPSY MOTH IN ENGLAND

The statement is made, source not known, that an English entomologist some time ago received for examination a few specimens of the gypsy moth, and accidentally allowed some half dozen to escape. These increased and multiplied in such an alarming fashion that the moth spread over a certain locality, in which they wrought considerable damage. It has cost that English county $500,000 in the attempt to suppress them, and it is estimated that it will take another $100,000 per annum to keep them from traveling outside the area which they at present devastate.

The above appeared in the columns of the *Country Gentleman* for March 30. As Nicholson in his "Dictionary of Gardening," makes mention of the gypsy moth in such manner as to warrant the inference that this insect is no stranger in England we have made some inquiry through responsible channels in England and have been unable to learn that there have been any serious outbreak or epidemics caused by the pest in Great Britain or to find any information to substantiate the statement referred to in the *Country Gentleman.* The gypsy moth is well-known, however, in various parts of Great Britain.

"Well," says Adam, with a twinge of regret, "this garden is a long ways in the country, an' their aint no rural free delivery of mails yet, but the place has one advantage as a residential site." "I'd just like to have you tell me what it is," said Eve petulantly. "Well," said Adam, flicking off a bug from his nose, "ef you'll keep your fingers off that apple tree we wont have no laundry bills to pay for some time to come." — *Judge.*

NOTES ON THE CULTIVATION OF PÆONIES

By Robert Tracy Jackson

[Continued from last week's issue]

F. L. Temple in 1889 suggested the method of propagating herbaceous pæonies by heaping up fine rich soil over the crowns; under such conditions he found, by an accidental experiment, that roots and buds developed on the stems, which could then be cut off leaving the crown intact. F. W. Timme recommends this method of deep burial as a means of propagation. According to him the procedure is as follows. In spring before there is any growth above ground a bottomless box or tub is placed over the plant and filled with nice porous soil to a depth of twelve or fifteen inches. The new growth will push through this layer of earth developing its foliage and flowers above it. By keeping this soil enclosed in the box fairly moist all summer it will be filled with roots about October. The stalks are carefully cut away below the new stratum of soil and cut into as many pieces as there are eyes provided with roots. These short lengths planted to a depth of about two inches below the surface will grow into fine stock in less time than will small root divisions. Mr. Timme says that this sort of layering succeeds well with nearly all herbaceous pæonies.

Mallett in England also recommends this method of propagation as he says ". . . cover the stools with eight inches of light soil made firm; growths will push through this in spring readily enough and will flower well, but in September the resting buds will be found on independent stems six inches long and with a mass of roots at their bases. These should be detached and planted forthwith, and the old soil cleared from the stools to admit warmth, when they will develop many buds hitherto latent, and which they always have in reserve. These will flower in the course of the season. . . . The flowering strength of the stools is but little impaired, but a vigorous thinning of several weakly growths may be necessary in the second season." "Strong double pæonies will often form three or four resting buds on one rooting axis. These may be removed individually with a portion of the stem and its roots attached, potted, and grown on in a little warmth till planting time to encourage further root action." If this method proves as satisfactory as has been expressed, it may well be a most important means of propagating pæonies. As Mr. Temple suggested it would probably be best to fill in the earth gradually rather than the whole depth at the start, but this is a matter for determination. Leaf mold being fine, light, and retentive of moisture, would be good material for covering.

In startiug new beds or plantations it is safest to plant pæonies where they have not been grown for at least two or three years, as bits of roots may have been overlooked in digging up the plants, and such growing make confusion with varieties. If they are to be planted back in the same soil greatest care should be taken not to leave any roots behind when digging them up, but such care is never beyond the limit of possible oversight. Of course any given variety can be replanted in the same situation without risk of mixtures.

Pæonies may be transplanted or dug up for division to best advantage late in August or in September, rather than in Octocer or November, as the roots then have a chance to become established before cold weather. The crowns may be set about three inches below the surface, deeper planting is undesirable. For permanent planting pæonies should be set three feet apart, or if there is plenty of room four feet is none too much. If set closer it will be difficult to get between the plants without injuring the blossoms. If plants are small when set out, interspaces may be utilized for gladioli or any plants that will not cast appreciable shade or otherwise interfere with the peonies. Such plants had best be annuals, or of an annual character, as perennials would interfere with a free cultivation of the soil. In digging use a fork, not a spade, as less injurious to the roots of the pæonies.

For a limited number of peonies scattered planting is desirable, as allowing for the full development of each individual plant without loss of space. When grown close together the blossoms during a heavy rain or wind are apt to be beaten down and entangled with the flowers and foliage of adjacent plants. Where considerable quantities are grown beds are doubtless best, thus having all together, a convenience in watering and other cultural treatment, also the effect of mass in a bed is very fine.

Plants should be set three feet apart each way in a bed, or better four feet between rows if there is room to spare. Never having had this luxury of space I can affirm that three feet will do very well. Beds six or nine feet wide and of any convenient length cut in grass and carrying two or three rows of pæonies respectively are very attractive and easily gotten at for handling or inspection. Such beds are good for roses, phloxes, irises, or vegetables, which may be grown in rotation with pæonies when they have to be taken up. Beds of this character are used extensively in the Botanic Garden of Harvard University in Cambridge, and also in the large garden of a skilful lady horticulturist in Newport, where very best results and effects are attained. Large square beds with grass paths are used by Dr. Charles Sedgwick Minot, of Readville, in a large part of his extensive collection of some four hundred and fifty choice pæonies. Such beds may be made of any convenient size, but beds for fifty or one hundred plants have certain advantages on account of the ease of keeping track of such numbers. An obvious advantage of such a system is the ease of maintaining lists of plants in stock. Dr. Minot's plan is practically like the plan of a concert hall, where each seat, whether occupied or not bears its own number. With a book or card catalogue of the plants a pencil number on the left hand side readily shows just where and how many plants one has of a given variety.

A pæony well grown, or the same variety grown poorly or with average culture are very different. Unless really well grown one does not know what are the possibilities of this fine flower. Disbudding distinctly improves the quality of remaining flowers, especially on the larger varieties. In some varieties however, where profusion of bloom is a feature they may be left to advantage. As stated by A. H. Fewkes in an excellent article on pæony culture, the lateral buds should be removed as soon as they are large enough to handle, so as to throw all the strength into the leading bud. As he also says, proximity to a hose is an important feature when possible in planning the position of a peony bed, for the free use of water in the growing season is a great aid in producing fine flowers. Liquid cow manure, or other liquid manure used during the growing season promotes a splendid vigorous growth and correspondingly superior flowers. Water from a cesspool is excellent. Sheep manure or other fine manure stirred into the soil about the pæonies in spring works well, being washed down to the roots by rain or watering. In the late fall it is desirable to put four or five inches of barnyard manure above the crown of each plant. This may be done after the tops are cut off and the ground freezes hard; the manure being dug in, in spring.

[Continued in next issue]

THE NURSERY POOL

The general status of the ornamental nursery business in America has not been very favorable to financial returns during the past decade. Indeed, affairs are approaching the deplorable.

At the Nurserymen's Convention to be held at West Baden in June, formal recognition is to be given of the present state and we may expect a very interesting development.

No well-informed business man will deny that as a whole the ornamental nursery business as conducted in this country is disorganized and on that account suffers severely.

Virtually every item of stock offered for sale is to be found in surplus at some point and where so is procurable at cost and often below cost. The producer supplying a more or less regular supply of a general assortment of plants is not the one who usually profits by the low price prevalent due to a glut. Brokers reap the main advantage and the clients of landscape-architects practising according to approved professional methods are common and generous sharers in the advantages, but to blame either or both is but begging the question. It is but merely the good fortune of any one to be more familiar with the market than a rival and to profit in proportion to his special advantage.

The situation is that some of our most reputable, oldest, and largest nursery firms are barely eking out a dividend comparable with savings bank returns, whereas some of the smaller and newer nurserymen continue to appear to harvest a reasonble livelihood.

The working margin of many nurseries is often meager and a small proprietor may by diligence, knowledge, and foresight, earn a respectable salary by fulfilling several executive offices and joining in manual operations betimes. When a firm grows to proportions where the numerous details are delegated to salaried deputies and a properly conducted business does not net sufficient to pay for that class of assistance and provide a reasonable return during periods of business buoyancy, that business may be regarded as in an unsatisfactory financial state!

What is the remedy is the all-important query! Community of interests and various forms of amalgamation are suggested, but as yet no feasible method has been proposed.

Obviously, to curtail the production and raise selling prices would institute a most favorable condition for florists, farmers, and even amateurs to embark in the cultivation of plants, and the net gain would be but temporary and at the risk of future returns. Only an old reputable firm intending to close their affairs could hope to profit by this means, on the basis of exchanging their business for the sum brought by conducting affairs according to this method.

Nursery interests are so widely distributed, and each operating as a more or less distinct organism and to a degree somewhat experimentally, it would seem that present results are the harvest of the poor business methods of the management as a whole.

Should the dissatisfaction of nurserymen be sufficiently general to enable a large majority of the nursery interests to unite in executing a remedy, it may prove that an arrangement could be successfully adopted, as where the subscribers elect appraisers to determine upon a schedule by which each nurseryman's stock is to be sold.

Catalogued prices would in a sense be standardized on a comparative basis. By the transmission of trade prices among the nurserymen themselves, gluts would be reduced by the producer selling to another nurseryman at a higher price than he could probably secure otherwise, and by a wider distribution of a glutted article its price would be more easily maintained. The appraisers could also act as arbiters or as a court of appeals in the settlement of penalties exacted in transgressing the adopted code of regulations.

Our inclination is that the nurserymen may create a power to act as a clearing-house of available stock prices among themselves, and with proper fidelity to that power the nearest approach to a standardizing of interests will be possible.

The public will always indicate certain preferences in procuring plants, and it is not to be expected that one party would profit at the expense of the other. Individual capacity will always exert itself in business affairs and no sustained gain will be made by fictitiously bolstering up bad methods because their looseness, subterfuge, or lack of provisions are the only ones upon which general agreement can be procured.

Any draft of regulations must provide for the unhampered exertion of individual initiative. Restrictions are always open to objections and very difficult to adjust with equal severity on each subscriber. It is doubtful whether other than an instrument which will promptly, fully, and accurately post the trade associations as to locality, price, grade, and quantity, is necessary to start into operation a scheme which will eventually obviate the supposed need of a "Trust."

Any feasible code must provide for the entrance of all nurserymen and progressive benefits ensuing from the individual application of the rules prescribed for all.

In our present period of business prosperity the public can chuckle at the nurseryman's embarrassment and profit by it in their purchases.

We do not anticipate any relief from an attempted "Trust" corporation. Amalgamating like interests, whereby so doing reduces expense of production or conduction, is but shrewd business instinct. Present-day notions tend to view a pooling of interests only as a means of fleecing the many at the expense of the few. There are honorable corporations and to attach to them the odium justly due to others those scruples are not above reproach, is manifestly unjust.

Farmers have repeatedly endeavored to establish a means of relief from stock exchange manipulation of cereals, whereby the stock broker causes the price to mount to exorbitant points at the direct cost to the consumer and, by stimulating foreign competition, the indirect detriment to the producer.

The production of minerals is more easily controlled by securing the entire available supply and, if necessary, inducing an additional tariff on the import products which will compete in the domestic market. These methods are of but minor and temporary advantage in the control of the production and disposition of an article which requires no exceptional skill to produce and with the necessary materials available to embark in the business on short notice.

Emil Mische.

CUT-FLOWER MARKET REPORTS

BOSTON The cut-flower business of the past few days has been a "waiting game," all thoughts being centered on the greatest floral holiday of the year for this market. Indications point to a bigger business than ever before. A shortening up of daily receipts leads to the belief that growers are withholding material in anticipation of a rise, the very cool weather favoring such a course. Outdoor bloom is tardy and there will be an abundance of many things usually past blooming at this date.

BUFFALO The condition of the market the first half of the week had not changed from the previous, but business brightened up somewhat on Thursday, and continued good for the balance of the week, cleaning up all carried-over stock. Florists doing business near the cemeteries were good buyers, and picked up everything that was good enough for cemetery bouquets and white stock moved better than at the time of the previous report. Plenty of medium roses are to be had, while fancies and specials seem to have slacked up, and move well. Carnations are not coming in quite so plentifully, and sell readily. There is a good supply of outdoor lilac, tulips, and lily of the valley, which seems to move only fair. The outlook for Decoration Day looks bright, and a good week's business is counted on.

CLEVELAND The recent cold snap with dark days and heavy rains, has forced prices up, somewhat. Roses such as Brides, Maids, Meteors, etc., are now selling in the market at from $8 to $10 per 100, Beauties from $10 to $15, carnations from $1.50 to $3, sweet peas, 20c., and lily of the valley, $1.50. Geraniums in flower are $6 per 100 and salvia from $5 to $6.50. There will be plenty of out-door stock for Decoration Day.

CHICAGO This has been a week of good business, with local trade fair and shipping trade firm and well maintained during the entire week. Prices have not materially changed. There has been a strong demand for Liberties and the best grades of American Beauties have advanced to $4 and $5 per dozen. The demand for colored carnations was better comparatively than the inquiry for white stock save for the very good kinds as White Lawson, Lady Bountiful, and Boston Market, the latter variety being so well done by J. A. Budlong that it is bought by all for long distance shipments. The lily supply is not so heavy as the previous two weeks, but sufficient. Cape jessamine is offered in enormous quantities, quality good. Pæonies have their innings now. Already thousands are being shipped daily to Philadelphia, Pittsburgh, and Cleveland. Lilac had a good season. The double white at Randall's is exceptionally fine and there is plenty of green stuff.

LOUISVILLE Business conditions the previous week were about as good as could be expected, at this time of the year. Of course, the planting business is very satisfactory. Carnations and roses can be had in immense quantities, the quality holding up pretty well, and the demand satisfactory. Sweet peas also sell well, and are abundant. Good smilax is a little scarce. Pæonies sell very satisfactorily.

NEW YORK With the exception of one or two days in the week, business is very dull. A large supply of all varieties of roses and carnations keeps the market supplied beyond any ordinary demand. There is still an abundance of outdoor lilac and lily of the valley and early pæonies have begun to appear this week.

PHILADELPHIA Roses very plentiful. Beauties are fair for this time of year, Brides good; Kaiserin very fine. Carnations have stiffened up considerable the past two weeks and are expected to bring from two to five cents for Decoration Day. Pæonies are just about right here this year, the cool weather of the past week having held them back nicely. Cattleyas and Dendrobium nobile are about the only orchids around; they sell well. Lily of the valley very good, and in normal demand. Outdoor valley lily does not cut much of a figure in this market; what little comes in goes to the street men. Sweet peas have shortened up; pink and lavender are most called for. Gardenias are still coming in and are in fair demand. Southern gardenias cut in the bud arrive in good shape and open up nicely. Some good stock of the latter has been coming in recently.

CUT-FLOWER NOVELTIES IN CHICAGO

Gibson Beauty carnations are a drawing card at J. B. Deamud's. This variety is proving a fine late spring and summer bloomer.

E. H. Hunt has Kaiserin Augusta Victoria roses of unusual grade for so early in the season.

For Spanish Iris look to Poehlmann Bros.

Princeps gladiolus at Zech and Mann's.

Pæony Festiva maxima (Drop White) can now be supplied by all Horticulture's advertisers.

DECORATION DAY PROSPECTS IN CHICAGO

A specially-timed crop of American Beauties promises to be on in full cut for Decoration Day. J. A. Budlong, Poehlmann Bros., George and Peter Reinberg, Wietor Bros., and Wieland & Risch are the fortunate growers. An abundance of Brides and Bridesmaids are also promised. Wieland & Risch and the Reinbergs have their Liberties on in full crop. Carnations, especially colored sorts, are doubtful. There will be plenty of white. Pæonies galore, home-grown stock, will be ready with a few warm days. Chicago will be deluged with cape jessamine. Lilies are in smaller supply.

MONTREAL PLANT NOTES

Business in the stores is about normal; large hydrangeas remain, remnants which serve to remind one of a successful Easter trade. Bedding-plants have been on sale some little time, but people prefer to wait a week or two before planting. The stock generally is good, perhaps a little too large to begin with, but buyers look for good value on sight.

Dominion Square is gay with scarlet and yellow tulips effectively arranged; the mountain, rightly named Royal, however, is the center of interest. Romantic as are its mystic slopes in winter it is a dream of delicate coloring just now; the masses of minute maple twigs when seen from a distance give to it a peculiar wavy appearance. In flower I noted trilliums, dog-tooth violets, minute pansies and scentless violets, with masses of polypodium, while here and there the wild cherry and elder stand out in fine relief against the delicate green.

In a cottage garden I noted several handsome specimens of Dielytra spectabilis in flower, reminding one what a really graceful herbaceous plant this old forcing plant is, when allowed to remain and form large crowns.

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"One Spraying Enough"

"DISPARENE"

THE ONE INSECTICIDE that destroys all leaf-eating insects without fail; that adheres to the leaves for months undisturbed even by heavy rains, and NEVER INJURES THE MOST DELICATE FOLIAGE. Put up in sizes for 50cts., $1.00 and $4.25. Booklet free.

Also INSECT EMULSION For Green and Black Fly and Mealy Bug

"Add Water, and Spray"

BOWKER INSECTICIDE CO.
BOSTON NEW YORK CINCINNATI

In writing to advertisers, kindly mention HORTICULTURE

J. A. BUDLONG

37-39 Randolph Street, CHICAGO

WE HAVE TO OFFER FOR **Decoration Day**

A FINE LOT OF

Brides, Bridesmaids, Beauties and Chatenay

ALL CLEAN STOCK OF GOOD COLOR AND FREE FROM MILDEW

ALSO CARNATIONS IN LEADING VARIETIES

... PRICES ...

BEAUTIES—	Per doz.	CHATENAY	per 100, $3.00 to $6.00
36-inch and up	$3.00 to $4.00	GATE	" 3.00 to 6.00
24 to 30-inch	2.50 to 3.00	LIBERTY	" 6.00 to 10.00
20-inch	2.00	CARNATIONS—Fancy	" 3.00 to 4.00
15-inch	1.50	Our selection	" 2.00
12-inch	1.00	Common	" 1.50
Short stems	50 to .75	PEONIES	per doz. .50 to .75
BRIDE	per 100, 3.00 to 6.00	HARRISII AND CALLAS	per 100 8.00 to 10.00
BRIDESMAID	" 3.00 to 6.00	VALLEY	" 2.00 to 4.00
		CAPE JASMINE	" 1.50 to 2.00

PLACE ORDERS EARLY TO SECURE BEST SELECTION

ALL OTHER STOCK IN SEASON AT LOWEST MARKET RATES

NO CHARGES FOR P. AND D. ON ALL ORDERS ON $4.00 OR OVER

In writing to advertisers, kindly mention HORTICULTURE

KAISERIN

2½-inch Pots

$3.00 ..... per 100
$25.00 ..... per 1000

VIOLETS

3000 fine Clumps
Lady Campbell

$5.00 ..... per 100
$45.00 ..... per 1000

SAMUEL S. PENNOCK
1612 Ludlow St., PHILADELPHIA

Kindly mention HORTICULTURE when writing.

BULBS

HORSESHOE BRAND and **PLANTS**

Ralph M. Ward & Co.
12 West Broadway New York

QUALITY SEEDS BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

News Notes

A grand floral parade is to take place on the Boardwalk at Atlantic City, on June 7.

Alfred Hudder, said to have been employed by a Germantown florist, committed suicide by inhaling gas from a jet in his room at Dehnhard's Hotel, Philadelphia, on May 15.

Mrs. T. H. Greene of Woonsocket, R. I., was seriously injured in a panic in a street car on May 15. The trouble was caused by a short circuiting of the controller which set the car afire.

A. Von Asche of Woodside, N. Y., is just recovering from severe injuries sustained in a collision between an electric car and a wagon in which he was driving. He had a very narrow escape with his life.

Aug. Hammerstein, driver for Charles Kumpf, a florist of Brooklyn, N. Y., had a narrow escape from being killed in a collision between an electric car and his wagon-load of plants last Thursday. He was knocked senseless and the truck was demolished.

The firm of John A. Scollay, Brooklyn, N. Y., are at present engaged on a contract for the City of New York, installing therein steam boilers having an aggregate capacity of 80,000 square feet of direct steam radiation.

The above is being done in addition to other extensive work in other parts of the buildings.

Extensive additions and alterations are to be made to the florist establishment of William J. Johnston, 221 and 223 West Madison street, Baltimore, Md. Mr. Johnston recently purchased one of the buildings which he is now using. The improvements consist of building a third-story addition to No. 221 and a new building in the rear and making alterations on the front of the structures.

W. J. ELDERING & SON
OVERVEEN, HOLLAND
HEADQUARTERS FOR HIGH-GRADE
HYACINTHS, TULIPS and NARCISSUS
Special quotations on receipt of quantities required.
STRICTLY WHOLESALE
Represented by G. C. ELDERING, at the Netherland Club of New York City until June 15th.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE.—Four violet houses, capacity 25,000 violets, at present stocked with tomato plants; living house four rooms; two acres land; near depot. For particulars address, W. B. GOODENOW, Stoughton, Mass.

TO LET.—For a term of years, four greenhouses, hot water heat, two minutes walk from steam and electric cars. MRS. R. HALEY, 106 Avon St., Malden, Mass.

JUNE WEDDINGS

VALLEY, SWEET PEAS
STRING ASPARAGUS
And Best of Everything in Flowers

THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

PEONIES AND ALL SEASONABLE
FLOWERS FOR
DECORATION DAY

Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

In writing to advertisers, mention HORTICULTURE

Hardy Cut **Dagger and Fancy**
FERNS
$1.50 per 1000
Green and Bronze Galax, $1 per 1000
Best Stock of FLORISTS' SUPPLIES in the country
H.M.Robinson & Co.
8 & 11 PROVINCE ST.
Boston, Mass.

In writing to advertisers, mention HORTICULTURE

--- THE ---
Philadelphia Cut Flower Co.
R. C. HAYDEN, Secy. and Treas.
WM. J. MUTH, Manager.

For DECORATION DAY WE WILL HAVE
Peonies, Carnations, Roses Etc.
in quantity. Write us for prices

Store Open from 7.30 A.M. to 8.00 P.M.
1516-1518 Sansom St.
PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER
WHOLESALE FLORIST
1432 So. Penn. Sq., PHILA.
Sweet Peas, Peonies
Carnations

In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO MAY 23	ST. LOUIS MAY 23	PHILA. MAY 23	BOSTON MAY 26
ROSES				
Am. Beauty, Fan. & Sp.	32.50 to 40.00	..... to	20.00 to 25.00	20.00 to 30.00
" Extra	20.00 to 30.00	..... to 20.00	15.00 to 20.00	12.00 to 15.00
" No. 1	18.00 to 20.00	12.50 to 15.00	12.50 to 15.00	4.00 to 8.00
" Lower grades	2.00 to 10.00	4.00 to 10.00	6.00 to 8.00	1.00 to 2.00
Bride & 'Maid — Fan. & Sp.	6.00 to 8.00	..... to 5.00	..... to 8.00	5.00 to 8.00
" " Extra	5.00 to 6.00	..... to 3.00	5.00 to 6.00	4.00 to 5.00
" " No. 1 and Lower gr.	1.50 to 4.00	2.00 to	2.00 to 5.00	1.00 to 3.00
Liberty, Fancy & Special	10.00 to 12.50	..... to	12.50 to 15.00	10.00 to 15.00
" extra	8.00 to 10.00	..... to 4.00	10.00 to 12.50	8.00 to 10.00
" No. 1	6.00 to 8.00	2.00 to 3.00	6.00 to 8.00	4.00 to 6.00
Meteor	..... to	..... to	..... to	2.00 to 8.00
Carnot and Kaiserin	2.00 to 10.00	..... to	5.00 to 6.00	4.00 to 8.00
Jacq	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Golden Gate, Ivory — Best	6.00 to 8.00	..... to 5.00	6.00 to 8.00	6.00 to 8.00
Ivory, Chatenay — Medium	4.00 to 5.00	..... to 3.00	3.00 to 5.00	3.00 to 4.00
Chatenay — Culls	2.00 to 3.00	2.00 to	2.00 to 3.00	1.00 to 2.00
CARNATIONS				
Fancy Class	2.00 to 3.00	..... to 2.50	2.50 to 3.00	2.00 to 3.00
General Class	.75 to 1.50	1.00 to 2.00	1.00 to 2.50	.75 to 1.50
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	..... to 50.00	..... to .....
Cattleya Skinnerii	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	6.00 to 10.00	..... to	6.00 to 8.00	3.00 to 6.00
Lily of the Valley	2.00 to 4.00	..... to	3.00 to 4.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	2.00 to 3.00
Daffodils	..... to	..... to	..... to	..... to .....
Tulips	2.00 to 4.00	..... to	..... to	..... to .....
Callas	6.00 to 8.00	..... to	6.00 to 8.00	6.00 to 8.00
MISCELLANEOUS				
Mignonette	2.00 to 6.00	..... to	2.00 to 3.00	1.00 to 2.00
Sweet Peas	.50 to 1.00	.25 to .40	.50 to 1.00	.50 to .75
Adiantum Cuneatum	.50 to 1.00	..... to 1.00	..... to .75	..... to 1.00
" Croweanum	..... to	..... to	1.25 to 1.50	..... to 1.50
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	10.00 to 15.00	..... to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	25.00 to 40.00	25.00 to 50.00	35.00 to 50.00
" " bunches	25.00 to 50.00	25.00 to 40.00	25.00 to 50.00	35.00 to 50.00
" Sprengeri "	25.00 to 50.00	25.00 to 75.00	25.00 to 50.00	25.00 to 35.00
Gardenias	1.50 to 2.00	..... to	10.00 to 12.50	..... to .....
Lilacs, bunches	15.00 to 35.00	..... to	25.00 to 50.00	..... to .....
Peonies	..... to	..... to	..... to	..... to .....

Above Quotations Give the FACTS Regarding Prices as Exactly as Possible in Condensed Form.

CHAS. W. McKELLAR
51 WABASH AVE. CHICAGO
Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG
WHOLESALE
CUT FLOWERS
51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

GEORGE A. SUTHERLAND CO.
CUT FLOWERS
Florists' Supplies and Letters
34 Hawley St. - BOSTON

EVERYTHING IN
CUT FLOWERS
OUR MOTTO { GOOD { STOCK TREATMENT PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th Street, New York

In writing advertisers, mention HORTICULTURE.

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Ave. ....CHICAGO

In writing to advertisers, mention HORTICULTURE

HEADQUARTERS

—FOR—

Large Flowering Peonies

ALL COLORS

$3.00 TO $6.00 PER 100

50c TO 85c PER DOZ.

We can and will take care of your Memorial Day wants. Write us your needs now.

E. F. WINTERSON CO.

45-47-49 Wabash, CHICAGO

Catalogue Free

In writing to advertisers, mention HORTICULTURE

AMERICAN BEAUTY PLANTS

From Bench

$5.00 per 100. $40.00 per 1000

GEO. REINBERG

51 Wabash Ave. CHICAGO

In writing to advertisers, mention HORTICULTURE

BUSINESS CHANGES

The A. F. Belcher establishment at Holbrook, Mass., has been sold to Charles L. Pierce of Gardner, who will continue the business.

James Barclay, who recently purchased the Rhode Island green houses at Pawtucket, R. I., and moved to that city, has sold his green house in Herkimer, N. Y., to H. A. Maxiner of Williamsport, Pa. A. P. Barclay, who has had charge of the Herkimer green house will join his brother in Pawtucket.

Max O. Jordan and John Appel have taken over the business hitherto carried on by J. M. Keller at Fifth avenue and 65th street, Brooklyn, N. Y., and will continue it as the J. M. Keller Co., Mr. Keller retiring. Mr. Jordan is Mr. Keller's son-in-law, and Mr. Appel has been foreman in the establishment for over twelve years. The business will be run on the same lines as heretofore.

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers, mention HORTICULTURE

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street - - NEW YORK

In writing to advertisers, mention HORTICULTURE

FRED C. WEBER

FflorIst

4326-28 OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 676

NEW CROP

Dagger Ferns

$1.50 PER 1000

They are the finest and largest ferns ever sold

FANCY FERNS, $1.50 per 1000

Bouquet Green, $7.00 per 100 lbs. **Bouquet Green Wreaths and Laurel Wreaths,** all sizes and prices.

Laurel Festooning, extra fine and full, 4c, 5c and 6c per yard, and made fresh daily from the woods. Send for sample of our Laurel Wreaths for Memorial Day use.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send us your orders for Memorial Day NOW

and you will get the best to be had and at rock-bottom prices

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

Telephone and telegraph orders will receive immediate attention.

Telegraph Office, New Salem, Mass. Long Distance Telephone Connection

TELL US YOUR WANTS; WE WILL DO THE REST

CROWL FERN CO., MILLINGTON MASS.

In writing to advertisers, kindly mention HORTICULTURE

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

REED & KELLER

122 W. 25th St., New York, N. Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

In writing to advertisers, mention HORTICULTURE

LILIES, JAPANESE PLANTS

BAMBOO STAKES

SUZUKI & IIDA

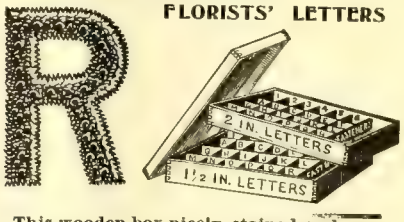
31 BARCLAY ST., NEW YORK

In writing to advertisers, mention HORTICULTURE

BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.

Script Letters, 3. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager

84 Hawley St., BOSTON, MASS.

In writing advertisers, mention HORTICULTURE

Advertise here. It will be sure to produce good results.

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

LILIES LONGIFLORUM
$6.00 to $8.00 per hundred, buds or blossoms, in pots or out. Extra Fine Quality.
ORDER NOW FOR MEMORIAL DAY
BOCK, THE FLORIST
2394 Massachusetts Ave. North Cambridge, Mass.
In writing to advertisers, mention HORTICULTURE

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly.
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
In writing to advertisers, kindly mention HORTICULTURE

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street . . New York
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
Telephones { 2200 / 2001 } Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending May 20 1905			First Half of Week beginning May 22 1905		
ROSES						
Am. Beauty, fan. and sp	10.00	to	20.00	10.00	to	20.00
" extra	4.00	to	8.00	6.00	to	10.00
" No. 1	2.00	to	4.00	4.00	to	6.00
" Lower grades	.50	to	1.00	.50	to	2.00
Bride & Maid, fan. and sp	3.00	to	5.00	3.00	to	5.00
" " extra	2.00	to	3.00	2.00	to	3.00
" " No. 1 and Lower gr.	.50	to	1.50	.50	to	2.00
Liberty, fan. and sp.	8.00	to	15.00	5.00	to	8.00
" extra	4.00	to	8.00	4.00	to	6.00
" No. 1	1.50	to	2.50	2.00	to	3.00
Meteor	.75	to	8.00	.75	to	6.00
Jacq	2.00	to	10.00	.....	to	.....
Brunner	2.00	to	20.00	.....	to	.....
Carnot and Kaiserin	.50	to	4.00	.....	to	.....
Golden Gate / Ivory / Chatenay — Best	4.00	to	5.00	4.00	to	5.00
Golden Gate / Ivory / Chatenay — Medium	1.00	to	2.00	.....	to	.....
Golden Gate / Ivory / Chatenay — Culls	.50	to	1.00	.....	to	.....
CARNATIONS						
Fancy Class	1.50	to	3.00	2.00	to	3.00
General Class	.50	to	1.00	.50	to	1.50
ORCHIDS						
Cattleyas	20.00	to	60.00	20.00	to	50.00
Cypripediums	.....	to	.....	.....	to	.....
BULBOUS						
Lilies	2.00	to	4.00	2.00	to	5.00
Lily of the Valley	1.00	to	4.00	.50	to	2.00
Stocks	.....	to	.....	.....	to	.....
Daffodils	.....	to	.....	.....	to	.....
Tulips	.....	to	.....	.....	to	.....
Callas	2.00	to	5.00	3.00	to	5.00
MISCELLANEOUS						
Mignonette	.50	to	2.00	.50	to	2.00
Sweet Peas	.15	to	.35	.25	to	.75
Adiantum Cuneatum	.50	to	.75	.50	to	.75
" Croweanum	.....	to	1.50	.....	to	1.50
" Farleyense	....	to	....	.....	to	.....
Smilax	10.00	to	15.00	8.00	to	12.00
Asparagus Plumosus, strings	20.00	to	40.00	25.00	to	40.00
" " bunches	15.00	to	35.00	15.00	to	25.00
" Sprengeri "	10.00	to	20.00	12.00	to	16.00
Gardenias	4.00	to	10.00	.....	to	.....
Lilacs, bunches	5.00	to	40.00	20.00	to	25.00

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
43 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Shipping orders for Decoration Day supplied with select Flowers of all kinds at reasonable prices. Write for quotations.
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

MOLTZ
Flowers bought on order at Market Rates and carefully delivered
WRITE FOR TERMS
COOGAN BUILDING 1 Flight
55-57 W. 26th St., New York

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON

WIETOR BROS.
Wholesale Growers of
CUT FLOWERS
51-53 Wabash Ave., CHICAGO, ILL.
In writing to advertisers, mention HORTICULTURE

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

OUR FLOWERS
Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unexcelled quality EVERY DAY IN THE YEAR.
We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
TRAENDLY & SCHENCK
44 West 28th St. New York City Telephones, 798-799 Madison Square

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI May 16	BALTIMORE May 10	BUFFALO May 24	PITTSBURG May 22
ROSES				
Am. Beauty, fan. and sp.	..... to 25.00	25.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	..... to	15.00 to 20.00	15.00 to 20.00
" No. 1	8.00 to 10.00	..... to	6.00 to 15.00	10.00 to 12.00
" Lower grades	5.00 to 6.00	..... to	3.00 to 6.00	2.00 to 4.00
Bride & 'Maid, fan and sp.	..... to 6.00	..... to 7.00	..... to 8.00	..... to 8.00
" " extra	4.00 to 5.00	..... to 6.00	..... to 6.00	..... to 6.00
" " No. 1 and Lower gr.	1.50 to 3.00	..... to 5.00	2.00 to 5.00	2.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	8.00 to 10.00	..... to 12.00
" extra	..... to 4.00	..... to	6.00 to 8.00	..... to 10.00
" No. 1	2.00 to 3.00	..... to	4.00 to 6.00	6.00 to 8.00
Meteor	..... to	..... to	4.00 to 8.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
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Callas	..... to 8.00	..... to	6.00 to 8.00	8.00 to 10.00
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" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	30.00 to 40.00
" Sprengeri "	..... to 35.00	25.00 to	25.00 to 50.00	40.00 to 50.00
Gardenias	..... to	..... to	2.00 to 3.00	..... to .....
Lilac, bunches	..... to	..... to	10.00 to 20.00	..... to .....

SEED TRADE TOPICS

Wholesale dealers in the west hope to show a good average year June 1, next. They report business as generally satisfactory.

W. E. Sanderson is on the New England circuit and if Thorburn's clerks don't have to work late nights to keep up with the orders it will not be the fault of Mr. Sanderson.

The cabbage-seed crop of Long Island has shown great improvement during the past four weeks, owing to the cool, favorable weather, and now promises to be a fair average.

Excessive rain has interfered with farm and garden work most seriously for the past two weeks throughout the central west, and accordingly has curtailed the demand for seeds, both farm and garden. Seed merchants in this section say it has seriously affected their business. With the return of fine weather it is to be hoped the demand for seeds will revive, although it is really too late to hope to regain the lost ground.

Up to May 1 eastern jobbing houses had reported a very good trade and fully up to average, but since May 1, business has fallen behind, and it is now believed will show a slight decrease in volume as compared with last year. Repeated and apparently authentic reports about the California onion-seed crops are to the effect that in the zone about Santa Clara and San José, mildew has done great damage to the growing crops, and bids fair to reduce them from one-half to two-thirds — this being especially true of Southport Globe varieties — red, white, and yellow, also Puzetaker. A really severe shortage in the onion-seed crop would be borne with Christian fortitude by the seed merchants of the country.

The recent order of the Treasury Department to collectors of customs to take two-ounce samples from all importations of grass and clover seeds amounting to 100 lbs. or more, and forward same to the Secretary of Agriculture at Washington, seems to be in furtherance of a fight which the Department of Agriculture is making on "adulterated" seeds. Now if the men who are conducting this fight were practical men and not inexperienced theorists, and if they would construe the word *adulterated* at its true meaning, much good might result from the present crusade, but they do not understand their business at all, and thus do many honest dealers a great injustice. It is well known that foreign seeds are often found in the very best grades of grass seeds, and always in the cheaper grades, therefore to publish a seedsman's name, and the statement that foreign seeds were found in samples of grass seeds sold or imported by him, without naming the grade of seed, or making other explanation, is a gross injustice. The same course is followed with domestic grasses and clover, and it is all done under the pretense of aiding the farmer, but there is more political anxiety than any other element in all this.

If the Secretary of Agriculture had the courage of his convictions he would start with the farmer. He is the man who grows the seed, and he is mainly responsible for the foreign seeds of which he complains. If he were awake and vigilant in preventing weeds from maturing their seeds on his farm, he could reduce the percentage of weed seeds in his grass seeds to the minimum. To attack the seed merchant and overlook the farmer in this matter, is to attack effects and ignore causes.

Any dealer in grass seed will tell you that a difference of 25 cents per bushel in the best and an inferior grade of clover will bring a large percentage of farmers to the inferior seed. If the Department of Agriculture really wants to render justice to all and conduct its crusade intelligently, let it call the principal grass seed dealers together and consult with them.

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UNSURPASSED QUALITY

Johnson & Stokes' Special Mixture The best value on the market 75c. per 100; $5.50 per 1000

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Floracroft Prize Mixture—SECOND SIZE. 80c. per 100; $6.50 per 1000

	100	1000		100	1000
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Cineraria, English Prize Mixed, half trade packet, 50c.; trade packet, $1.00.

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High Grade French and Dutch Bulbs. Get our quotations—they will interest you.

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	½ Tr. Pkt.	Tr. Pkt.
Prize Dwarf	$0.60	$1.00
" Medium Tall	.60	1.00
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Alba Magnifica, White	.60	1.00
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COHASSET, MASS. — C. W. Barron, one house and workroom building.

MILTON, MASS. — Mrs. Roger Wolcott, one house and workroom building.

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789,803. Pruning Implement. Francis M. Garrison, Berrien Center, Mich., assignor of one-half to John A. Rutter, Berrien Center, Mich.

789,834. Fruit-Basket. Frederick Benoit, Chicago, Ill.

789,871. Attachment for Cultivators. Louis J. Northern, Robinson, Kan.

789,898. Feeder for Fruit-Pitting Machines. John S. Briggs, Los Angeles, Cal.

789,918. Hand Planter. Arthur C. Kent, Janesville, Wis.

790,194. Combined Fruit-Picking Sack and Measure. Edwin F. Douglass and John B. Hughes, Pueblo, Colo.

Considerable damage has been done to the greenhouses of several growers in Cincinnati, by the heavy storms recently experienced. Among the heaviest loosers were Wm. McFadden of Cincinnati, and Sherman Thomas of Ft. Thomas, Ky., the wind blowing out several hundred feet of glass.

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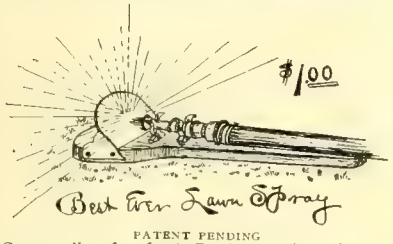
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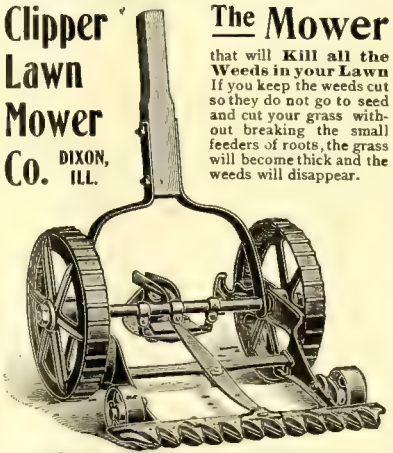
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The Mower

that will **Kill all the Weeds in your Lawn**

If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, $5; No. 2—15-in. Mower, $6; No. 3—18-in. Mower, $7; No. 4—21-in. Mower, $8. Send draft, money order or registered letter.

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FLOWERS BY TELEGRAPH.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co. Cambridge, Mass.
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Wm. J. Boas & Co., Philadelphia, Pa.
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GARDENIAS.
Robert Scott & Son, Sharon Hill, Del. Co. Pa.

GLADIOLI.
Arthur Cowee, Berlin, N. Y. Groff's Hybrids and Prize Strains.

GLASS.
Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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Sharp, Partridge & Co., 22d and Union Place, Chicago
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GLAZING POINT.
H. A. Dreer Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.
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Chicago House Wrecking Co., Chicago, Ill.
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King Construction Co., N. Tonawanda, N Y.
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Adam Scullo Lumber Co.,
Weed St. and Ha horne Ave., Chicago, Ill.
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GREENS FOR DECORATION DAY.
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Crowl Fern Co., Millington, Mass.
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HARDY HERBACEOUS PLANTS.
M. H. Walsh, Woods Hole, Mass.
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HARDY PERENNIALS.
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Ccalus & Boddington Co., 311 W. 23rd St., New York

HELP.
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Gurney Heater Mfg. Co., 74 Franklin St., Boston.
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IMPORTING HOUSES.
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Plants tender or hardy.
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R. M. Ward & Co., New York. Plants and Bulbs
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JAPANESE PLANTS.
Hinode Florist Co., 5th St., Woodside, N. Y
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KAISERIN ROOTED CUTTINGS.
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KUDZU VINES.
Edward Teas, Joplin, Mo.

LAWN MOWERS.
Clipper Lawn Mower Co., Dixon, Ill.
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LILIES.
Plants and Cut Blooms. Hinode Florist Co., 5th St.
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Bock the Florist, 2394 Mass. Ave., Cambridge, Mass.
Plants and cut
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MASTICA.
Joseph Breck & Son, Boston.
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MOONVINES.
Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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NICOTIANA SANDERÆ.
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Vaughan's Seed Store, Chicago and New York,
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ORCHID PLANTS.
Lager & Hurrell, Summit, N. J
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Julius Roehrs, Rutherford, N. J.
Cattleya Trianæ.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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PÆONIES.
S. S. Pennock, Philadelphia.
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E. F. Winterson Co., 45–49 Wabash Ave., Chicago.
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PANSIES.
100,000 now in bloom, extra large field-grown plants. They are the kind that sell. $2.00 100, $20.00 1,000.
A. A. Sawyer, 23 S. Harlem Ave., Oak Park, Ill.

PATENTS.
E. G. Siggers, Washington, D. C.
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PLANTS DECORATIVE.
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Julius Roehrs, Ruthertord, N. J.
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POINSETTIAS.
Thorn Hedge Greenhouses, Newtown Sq., Pa.
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PRINCESS OF WALES VIOLETS.
Wm. Sim, Cliftondale, Mass.
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PUTTY.
Hammond Paint & Slug Shot Wks. Co., Fishkill-on-Hudson, N. Y.
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RETAIL FLORISTS.
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Thomas Young, Jr., New York.
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Central Floral Co., 105 Wabash Ave., Chicago.

Klunder, 33 State St., Chicago.

ROSES.
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Hardy Roses.
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M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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New Rose Wellesley.
Waban Rose Conservatories, Natick, Mass.
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English-Grown Roses.
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Rose Killarney. Siebrecht & Son, New Rochelle, N. Y.
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Eastern Nurseries, Jamaica Plain, Mass.
Hardy Roses.
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.

C. M. Niuffer, Springfield, O.
Rose Plants. Write for prices on Hybrid Perpetuals, Hybrid Teas, Teas, Climbers, Ramblers, etc.

SALVIA SPLENDENS.
S. W. Carey, Urbana, O.
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SCOTT FERN.
John Scott, Keap St. Brooklyn, N. Y.
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SEEDS.
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Boston.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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Schlegel & Fottler Co.,
26 S. Market St., Boston.
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Conrad Appel, Darmstadt, Germany. Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.
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SPHAGNUM MOSS.
H. R. Akers, Chatsworth, N. J.

STEAM TRAP.
E. Hippard, Youngstown, O.

SURPLUS BULBS.
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VENTILATING APPARATUS.
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The Chicago Lifter.
J. C. Moninger Co., 412 Hawthorne Ave., Chicago

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Vaughan & Sperry, 60 Wabash Ave., Chicago.

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Bonnot Bros., 55–57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York.
Moltz, 55–57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.

Philadelphia.
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W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612–18 Ludlow St., Philadelphia, Pa.
Phila. Cut FlowerCo., 1516–18 Sansom St., Phila., Pa.
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.
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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

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BEST EVER LAWN SPRAY.
The Best Ever Spray Co., Chester, N. Y.
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CATTLEYA TRIANÆ.
Clucas & Boddington Co., 131 W. 23d St., New York.
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CINERARIA AND PRIMULAS SEEDS.
Johnson & Stokes, 217–219 Market St., Philadelphia.
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H. F. Michell Co., 1018 Market St., Philadelphia.
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FERTILIZERS, BONE MEAL AND SHEEP MANURE.
E. H. Hunt, 76–78 Wabash Ave., Chicago.
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GRAFTED ROSES. KILLARNEY.
A. N. Pierson, Cromwell, Conn.
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GLADIOLUS BULBS.
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GREENHOUSE VENTILATORS.
Safety Auto. V. & H. R. Co., Lake George, N. Y.
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HUCKLEBERRY TREE BOUGHS.
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LILIES, JAPANESE PLANTS AND BAMBOO STAKES.
Suzuki & Iida, 31 Barclay St., New York.
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PURE CULTURE SPAWN.
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ROSES—KILLARNEY.
John Young, 51 W. 28th St., New York.
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WHOLESALE FLORIST.
E. H. Hunt, 76–78 Wabash Ave., Chicago.
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Greenhouse Glass

In a few weeks the American Factories go out of blast. Good Glass will soon be scarce and much Higher. We have a limited quantity on hand at present prices

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. On the Corner 61-63 Portland St.

In writing to advertisers, kindly mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers kindly mention HORTICULTURE

GLASS Buy Now and Save Money

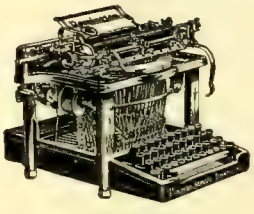
We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers kindly mention HORTICULTURE



THE MAN WHO KNOWS

the good and the bad points of all typewriters buys the

Remington

Remington Typewriter Co.

327 Broadway, New York

Boston Office, 81 Franklin St.

In writing to advertisers, kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETED IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

THE ANGLE LAMP

is better and more satisfactory method of illumination than *Gas, Electricity, Acetylene, Gasolene*, and of course better than *ordinary Lamps*.

The ANGLE LAMP is *guaranteed* as *represented* in every respect, or *money* refunded.

The ANGLE LAMP gives *brilliant, economical Kerosene-Quality Light*. That tells all there is to be told about *good Light*.

GLOBE GAS LIGHT CO.

77 and 79 Union St., BOSTON, MASS.

New England Agents. Send for catalogue.

In writing to advertisers, mention HORTICULTURE

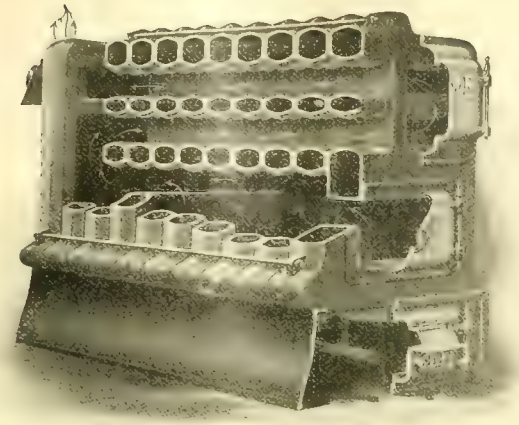
Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D.C.

In writing to advertisers, mention HORTICULTURE



Scollay Invincible
BOILERS
for Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings
Also Fittings and Valves, all sizes for
Wrought Iron Pipe. Genuine Wrought
Iron Pipe, all sizes

JOHN A. SCOLLAY
73 & 75 MYRTLE AVE.
Borough of Brooklyn - - NEW YORK CITY
Write for Catalogue and Special Prices

In writing to advertisers, kindly mention HORTICULTURE

PUMPS Rider-Ericsson. Second-hand, from $40.00 up; all repairs; other makes; new; cheap.
BOILERS New and second-hand 2 second-hand steam, first-class condition; will heat 1000 sq. ft. glass, at $35.00 each.
PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¼ cts.; 1¼-in, 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.
STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in. ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in., 1½-in., 2-in. pipe, $4.00.
PIPE CUTTERS New Saunders Pattern. No. 1 cuts ⅛-in.-1-in. pipe, $1.00. No. 2 cuts 1-in-2 in. pipe, $1.30.
STILLSON WRENCHES New. 18-in., grips ¾-in.-2-in. pipe, $1.65; 24-in., grips ¼-in-2½-in. pipe, $2 40; 36-in., grips ½-in.-3½-in. pipe, $4. 75.
PIPE VISES New. No. 1 Hinged, grips ⅛-in. 2-in. pipe, $2. 25.
GARDEN HOSE New. ¾-in., guaranteed 100-lbs. pressure, 7½ cts. per ft.; ¾-in. not guaranteed, 4¾ cts. per ft.
HOTBED SASH New. Cypress, 3-ft.x6 ft., from 70 cts. up; glazed, complete, from $1.60 up. Second-hand, as good as new, at $1.25 each.
GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75.
Second-hand 10x12 at $1.40 per box
10x12 } B. Double at $2.40.
12x12 }
12x14 — 12x16 — 12x20 } B. Double at $2.60.
14x14 — 14x16 — 14x20 }
16x16 — 16x18.
16x20 } B. Double at $2.85
16x24 }
Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.
1398-1408 Metropolitan Av., Brooklyn, N.Y.

Automatic Greenhouse VENTILATORS
From $25.00 up. Send for circular
The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.



We are the Manufacturers
Distributing Agents for
Boston and Vicinity.

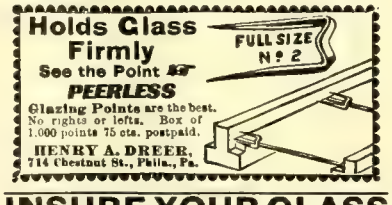
JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston Mass.

In writing to advertisers, mention HORTICULTURE

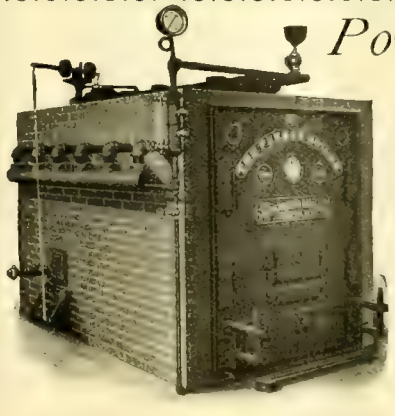
GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

SEND FOR
New Green House Catalogue
JUST ISSUED BY
King Construction Co.
North Tonawanda, N.Y. and Toronto, Ont.
In writing to advertisers, mention HORTICULTURE

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.



INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.



Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit
at Five different Florists' Conventions.

Have a Record of 20 Years - - - Over 25,000 Furman Boilers in Use

They are made in many styles: Round, Sectional, Brick-set, Asbestos Covered, etc., and in sizes up to 85 horse power. Costing from $25. to $1,000. each, Net.
Write to-day for valuable Catalogue.
Special Net Wholesale Prices to Florists. Address

The Herendeen Mfg. Co. Dept. H. T. Geneva, N.Y.

BRANCH OFFICES
39 Oliver St., Boston
39 Cortlandt St., New York

WESTERN REPRESENTATIVES
Edw. S. Dean, Bloomington, Ill.
E. K. Barr, La Crosse, Wis.

In writing to advertisers, kindly mention HORTICULTURE



Designed and erected for Judge W. H. Moore, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

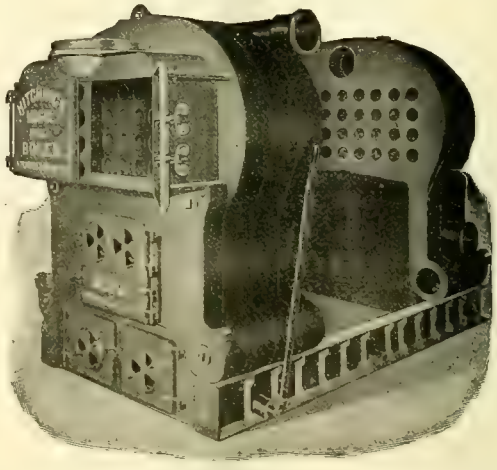
New York Office .... St. James Bldg., Broadway and 26th St.
General Office & Works ..... Irvington-on-Hudson, N. Y.

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HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



NEW MOGUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK — 233 Mercer Street
BOSTON — 819 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention Horticulture

THE PIERSON-SEFTON CO.
Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.

We manufacture and erect every type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS
For Steam and Water

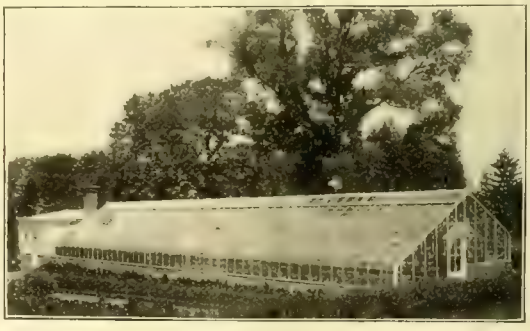
have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot-bed sash and frames. Special hand-made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



Exterior view of "U" Bar House erected for Mrs. H. Walter Webb, Scarborough-on-Hudson, N. Y.



Interior view of "U" Bar House erected for Mrs. H. Walter Webb, Scarborough-on-Hudson, N. Y.

In writing to advertisers, kindly mention Horticulture

HORTICULTURE

Vol. I JUNE 3, 1905 No. 27

MASSACHUSETTS HORTICULTURAL



MECONOPSIS INTEGRIFOLIA

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

New Rose **Wellesley**

From 2½ Pots, $25.00 per 100
For strictly first-class stock...

Waban Rose Conservatories
NATICK, MASS.
JOHN N. MAY, - - SUMMIT, N. J.

In writing to advertisers kindly mention HORTICULTURE

HEADQUARTERS
—FOR—
KILLARNEY

SIEBRECHT & SON
Rose Hill Nurseries New Rochelle, N.Y.

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HORTICULTURE

VOL. I | JUNE 3, 1905 | NO. 27

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NEXT WEEK'S ISSUE will contain Water Lilies by R. L. Adams, The International Flower Show at Paris by H. H. Thomas, British Horticulture by W. H. Adsett and important communications on the moth problem.

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3 years old. Very heavy and well branched.

1 to 3 feet	$2.00 per 100	$18.00 per 1000	
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Grandiflora Narcissus
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Blue List of Wholesale Prices mailed only to those who plant for profit.

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JOHNSON & STOKES
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Cast your eye over the New Offers in This Issue, Page 891.

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We carry in stock Duplicate Paris Leading Machines
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SEEDS For the Florist
Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON

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RAM'S HEAD BRAND SHEEP MANURE
JOSEPH BRECK & SONS, Corp.
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These strains of Cinerarias and Primulas are the finest that can be procured from the best European and American specialists.

CINERARIA GRANDIFLORA

	½ Tr. Pkt.	Tr. Pkt.
Prize Dwarf	$0.60	$1.00
" Medium Tall	.60	1.00
James Giant Strain	.60	1.00

PRIMULA SINENSIS
Michell's Prize, Mixed, contains only the finest sorts selected from the best strains .60 1.00

SEMPLE'S BRANCHING ASTER
The best for cut flowers. Lavender, Pink, Purple, Red, White, and Mixed Colors, per Tr. Pkt., 30c.; $1.00 per oz.
Our Wholesale Illustrated List, mailed free to all Florists. Write for a copy.

HENRY F. MICHELL CO.
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I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. *NOT IN THE TRUST.*

Address:
George C. Watson
JUNIPER AND LOCUST STS. Philadelphia, Penn.

Remember this factory is NOT in th TRUST and has a free foot.

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BULBS
HORSESHOE BRAND and PLANTS
Ralph M. Ward & Co.
12 West Broadway New York

Consistent and persistent advertising is always in crop.

Tobacco Seed of Cuba
JOSÉ SAGARMINAGA
Obispo 66, Habana, Cuba

In writing to advertisers, mention HORTICULTURE

Androsace sarmentosa

The androsaces are a group of plants in the primrose family and are true Alpine plants. They are among the prettiest little things for growing in rockeries. Some are only a couple of inches high, others have flower spikes about six inches, like the one here shown. The flowers are nearly all of different shades of pink or white; a few are yellow. The plants are an agglomeration of rosettes of different size according to the species, forming thick or loose sods, just covered in the spring with beautiful little umbels of flowers which grow from the center of the rosettes.

They are found naturally growing on the top of the highest mountains where they are covered with snow a great part of the year, and for that reason some of them, like many other Alpine plants, are not so very easy to grow; freezing and thawing frequently through the winter, does them the most harm. With the more delicate it pays to take them up in the fall and put in cold frames over winter; these are the dwarf growing ones; the others can stand something. The one here represented has stood for three years only covered with other surrounding plants, with a board roof.

To succeed with them, they must be planted in the rockery in a nearly vertical position so that the water will not stand in the rosettes, and between stones of good size, to shade them a little. Sandy peat mixed with some broken sand stones is a good mixture to grow them in. Nearly all the Alpine plants that grow rosettes have long, single roots that go deep in the soil, and it is very unwise to disturb them when once established.

Androsace sarmentosa from the Himalayas is one of the easiest to grow. It has pink flowers with dark center. A few other of the biggest growing species are A. lanuginosa from Nepaul, flower rose; A. lactea, from the Pyrenees, flower white; A. obtusifolia, from the Alps, flower light rose; A. strigilosa from the Himalayas, flower rose. Among the dwarf species which grow in thick sods the most cultivated are: A. Laggerii from Himalayas with bright pink flowers; A. villosa from the Pyrenees, flower rose; A. carnea from the Alps, flower pink; A. Wulfeniana from the Alps, all covered with rosy flowers; A. Chamæjasme from Tyrol, flower white and pink; A. Vitaliana from the Pyrenees, flower rich yellow.



ANDROSACE SARMENTOSA

Amédée Hans

Show and Fancy Pelargoniums

Within this section of the pelargonium family are to be found the most gorgeous flowered of the genus, many of them presenting strikingly beautiful combinations of coloring. A large group of the best varieties when well grown and flowered and tastefully arranged, makes one of the prettiest sights imaginable. They come in at a season of the year when the ordinary staple of winter and early spring-flowering material is on the wane, and therefore are more than useful for the person that has to figure on a continuous conservatory flowering supply. Far back in the distant past, skilful gardeners had recognized the fact that more than ordinary care was necessary to produce extraordinary well-flowered and symmetrical balanced specimens; hence to-day they find much favor with the ambitiously inclined for that same reason if for no other. Yet for the ordinary decorative specimens they are as easily handled as any greenhouse subject, even by those outside the craft, as evidenced by nice pieces seen in more or less obscure cottagers' windows at times.

Show pelargoniums require a comparatively cool temperature to grow them well, with an abundance of mellow fresh air circulating about them. In order to have them dwarf and stocky they must be kept as close to the glass as possible. One of the best places while they are in the formation stage is on a shelf opposite the ventilators, in a carnation house or any other house equivalent in temperature and exposure. On the stages of the houses wherein they may be grown, it is well to have them on inverted flower-pots and sufficiently distant from each other as to leave a clear space between them; this done it will insure an even circulation of air around them, which they like so well. On the contrary, close proximity to each other on the stages with stagnant atmospheric conditions will soon tell. Much of the foliage gets blighted and turns yellow, curtailing thereby the symmetry and finish of the plants. One of the chief characteristics of a perfect plant from the standpoint of an enthusiastic gardener is ampleness of stiff, sturdy foliage that rustles on moving the plants, like that of "Her ladyship's silks and satins as she climbs the stair."

They are partial to substantial dieting previous to flowering, and when the soil in the pots is fully occupied with roots, quantities of water at this stage are necessary to sustain them. Clay's fertilizer, as well as guano and soot, I found good stimulants. One certain indication that they are pleased with their stimulating diet is the discovery of numerous white rootlets coming to the surface of the earth in the pots, as if begging for more of it; the rootlet hairs being as prominent as the hairs on a gypsy-moth larva — or nearly so.

Stout cuttings of a partially wooded texture in

contradistinction to the soft and sappy variety, taken in late August or early September, and struck in a semi-close cold frame, well protected from the fierce sun, will, with good care, make plants of considerable size by this time next year, at which time as a rule pelargoniums of the class we are speaking about come in flower. Frequent pinching must be resorted to during their progress of growth in order to establish the frame-work of a nice balanced plant.

Plants, however, calculated to astonish the natives and that require the greater skill of the cultivator are those that are kept over from year to year, for they must be dried off to a certain degree to have them come round smiling again when you want them; to accomplish this the pots ought to be laid on their sides to prevent excessive rains getting at them during their resting period. It is done some short time after the flowering season is over and continued for three months or to the middle of September or thereabout, when they ought to be pruned back to one or two eyes of the previous year's growth, thoroughly soaked with water, but sparingly administered thereafter until they make a good break, when they should be shaken out of their pots and reduced to pots two or three sizes smaller than they had previously flowered in. Thereafter the treatment is practically similar to that given younger plants with one exception, that considerable more caution must be exercised in giving water during the early dull months of the year and until they are thoroughly recuperated.

There are so many excellent varieties in this section as first claimants for equal honors, that I feel less confident than I did in my article on ivy-leaved pelargoniums, in mentioning top-notchers; yet I will dare to say that those I will make mention of shall rank with any similar number as likely claimants for premier places.

Mrs. Ashley; this is certainly a premier claimant, for brilliancy of coloring as well as for all-round good habits; color, glowing scarlet conspicuously blotched maroon.

Mabel; a superb variety when grown to large plants and for exhibition purposes; color, dark velvety maroon, mottled white, narrow red margin.

Mrs. Robert Sandiford, fine white-flowered variety, rich and massive.

Madame Thibaut, white and rose, petals somewhat fimbriated; a splendid variety of great substance.

Triomphe de St. Mandé, deep crimson, large maroon blotches on upper petals, free bloomer; excellent variety.

Kingston Beauty, white with crimson blotch, A, 1.

Purity, beautiful white cup-shaped flower, petals slightly fringed.

Volonté Nationale, white ground, center of petals blotched and striped with carmine; charming variety.

H. M. Stanley, deep carmine, upper petals maroon blotched, lower petals lighter.

Madame Marie Renckt, pure white, with a faint lilac-rose spot on the top petals; very fine.

Decorator (Braid), light crimson veined, blotched maroon; effective.

Lady Duff, white center, rose-banded throughout the middle of petal; narrow white margin; splendid variety.

Madame Gustave Henry, pure white, a sport from Madame Thibaut, which is a guarantee of its excellence.

E. Findlayson

Nepenthes as Decorative Subjects

Pitcher-plants are not seriously regarded as of any great value by the commercial florist, but rather as curiosities for the botanic garden, useful perhaps to the student of natural history as illustrative of the way in which the struggle for existence may produce modification of structure, or as in some cases showing "reversion to type." If a few are kept, often they are relegated to a back place and lead an indifferent existence; but where they are splendidly handled as at Veitch's, England, or Edinburgh Botanic, Scotland, they suggest themselves as being of some decorative and ornamental value.

There is perhaps here scope for the exercise of ingenuity and originality in a business where variety is the very salt of life. If well done now and again, one might be introduced in the store windows by way of an interesting change. As exhibition plants I have used them with great effect in a mixed group of stove subjects; when well set up on green-painted poles they give character and distinction to the whole and never fail to attract the people. This is an excellent chance to open out business, especially if the attendant in charge has an apt way of explaining their life history and purposes. Then again by way of novelty, where a bower of southern smilax or a wire frame has been put up for a social reception or banquet, a few small compact well-pitchered plants would have a striking effect hung here and there from the frame. These are merely suggestions; many ways may open out, if one bears them in mind, of using effectively these most curious of nature's handiwork. Out of an increasing number of varieties the following would form a choice, distinct, well-marked half dozen. Mixta, Tineyii (new), Burkii excellens, Mastersiana purpurea, Curtissii superba, Dicksoniana. Perhaps the best of the small profuse-pitchered varieties is Sedenii; being small in leaf and pitcher it would make a pretty picture plant.

As to culture, they require the coolest place in a moist stove house. The end of a large house, where there are no exposed pipes crossing, suits them well. They abhor any place where they dry too quickly. They do best hung up in teak baskets in a light position, but require lath shading from strong sunshine. Rough bracken roots should be laid at the bottom of the basket, with fibrous peat and sphagnum moss as rooting material. During growing season they will take limitless quantities of water. Every third leaf should be nipped out in the young stage to make them pitcher well; this makes them throw up from the base and these growths make the finest pitchers.

Propagate by taking well-ripened tops but not too hard in winter; insert through the hole of inverted thumb pot, packing the inside with peat rather firmly; fill a four-inch pot with small crocks one-third full, lay a little moss on this, place the thumb-pot inside, then pack tight round the small pot with peat. Plunge in strong bottom heat and keep moist. Roots appear in about three months. The small pot may be lifted out now and again; as soon as the light-colored tips of the black roots appear they should be at once transferred to baskets and kept moist and close till firmly established.

Edgar Elvin

Echoes from England

NEW PLANTS FROM THIBET

The dark mystery which for so long has enveloped Thibet has passed forever; the veil has been uplifted, the pages of a book which remained for centuries uncut have been ruthlessly laid bare, and the halo of romance which hung around the Forbidden City is dispelled. Even the rich flora of this country has been collected and described, and some of the plants are now grown in our gardens.

The firm to whom we are indebted for an opportunity of becoming acquainted with Thibetan plants is Messrs. James Veitch & Sons of Chelsea, London. Some years ago they sent out E. H. Wilson to collect plants for them in unexplored regions of Western China, and Mr. Wilson succeeded in crossing the frontier, and penetrating into Thibet. It is said that Mr. Wilson has sent home no less than five thousand plants at present unknown to cultivation. If this is true, and I believe it to be the fact, then it is indeed a wonderful record. Most remarkable of these plants from Western China and Thibet recently shown by Messrs. James Veitch is the yellow flowered poppy, Meconopsis integrifolia, of which I send you a photograph. (See Frontispiece).

From a tour in Western China Mr. Wilson wrote that the highest altitude he reached was 16,100 feet. "The feature of these higher mountains is the wealth of rhododendrons, but my pen is too feeble to paint you the picture as it really is. To see miles upon miles of mountain side one blaze of rhododendron flowers is to see something better to be imagined than described." Mr. Wilson wrote that he found Meconopsis integrifolia in millions. "The flowers are often eight inches to ten inches across and of a very bright yellow color. It is a common sight to see a thousand or more in full flower together."

According to Messrs. Veitch the best position for this plant is on the north side of a hedge, but it will also grow and flower freely in open borders. The soil in which it is planted should be open and friable with a large proportion of peat and sand. The seed germinates freely either in a cold frame or out of doors in from three to fifteen months after sowing. The best results are obtained from planting in June to flower the following summer. Any attempt at any time to protect the plants is fatal. Those of your readers who delight in the culture of hardy plants should not fail to add this to their collections. It is now beautifully in flower at Kew in the rock garden.

Meconopsis punicea, which bears a solitary drooping rich red flower on a stalk about twenty inches high, was shown last week by Messrs. Veitch Sons and obtained a 1st class certificate from the Royal Horticultural Society. Primula japonica var. pulverulenta, a variety of the Japanese primrose with rich rose-purple flowers, the inflorescence being covered with a whitish powder, was also shown at the same time. Primula tangutica is a curious species with bright blackish purple narrow petaled flowers. Primula Veitchii is a new species with some resemblance to P. cortusoides, that will doubtless make a good garden plant. As many as twenty violet-colored blooms are borne on a stem about fourteen inches high. The above mentioned plants were all introduced from Western China and Thibet by Messrs. J. Veitch, through E. H. Wilson.

A NEW WHITE CARNATION

Carnation Lady Bountiful gained an award of merit from the Royal Horticultural Society last week. Like most other American varieties the edges of the flowers are fimbriated. It was exhibited by Mr. A. F. Dutton, Bexley Heath, London, who has in a short time come to the front as a large grower of carnations for market.

HIGH PRICED ORCHIDS

At a sale of orchids held in London last week some very high prices were realized. On the first day 350 lots fetched £3,300 and on the second day 68 lots realized £6,093; 200 guineas for an odontoglossum and 150 guineas for a cattleya were the highest individual prices.

FLOWERS AT KEW

At the present time the Royal Botanic Gardens, Kew, are a veritable garden of flowers. They are here, there, and everywhere. The Darwin tulips, gorgeous in their rich coloring, and stately in their poise on long stalks make a wonderful display in front of the large palm house; beds of the cream-colored Cytisus præcox and the various yellow brooms, the early rhododendrons, the spiræas, lilacs, amelanchiers, flowering currants, and many other things give a glorious display in the arboretum. The rock garden is a charming sight with cascades of alyssum, iberis, aubretia, arabis, masses of thrift, opening pinks and saxifragas; white pæonies, phlox, geum, aquilegias and a host of other spring flowers are opening in the herbaceous borders. Bluebell carpet beds and borders and woodland undergrowth by the acre and give a charm to the landscape such as no other English flower can do. At Kew there is gardening of many styles, but it is essentially an English garden, and one of the most beautiful seasons in an English garden is bluebell time.

"Honor for a gardener's son." Under this title you published a note of mine recently, which has turned out to be incorrect, through a curious coincidence of names. The Mr. Thomas Speed, who is the father of Mr. Harold Speed the famous artist, is not a gardener, but an architect. Mr. Thomas Speed the gardener had a son whose reputation as an artist is merely local, and his Christian name is not Harold.

Harry H. Thomas

London

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The Rhode Island Agricultural College authorities are elated over the passage, without a dissenting voice, of a bill in the legislature appropriating the sum of $31,500 for the building of modern greenhouses and other horticultural necessities. This generous action seems to indicate a thorough belef in the work of the college, and a willingness to support it properly.

The Tree Planting Association of New York City seems to be doing good service on behalf of the trees as is indicated by the recent order given by Commissioner McAdoo to the police, in compliance with the request of the association, directing that immediate report be made at headquarters of any arrest made for violation of the ordinance against the mutilation of trees or shrubs. The plan is to have the association's own counsel prosecute those charged with wilful injury to the trees.

The Washington convention of the Society of American Florists and Ornamental Horticulturists is now only ten weeks ahead. The first convention at the nation's capitol, held thirteen years ago, drew an attendance unexceeded by that at any meeting before or since that time, and we may reasonably expect to see an equally large gathering this year, for no city appeals as Washington does to the patriotic sentiments and love of every American. It is not too early to begin active preparations to insure a good representative attendance from every section, and to plan for traveling in social parties as much as possible. The program comprises many valuable features, the exhibition will be unprecedentedly fine and generous hospitality will have free rein, judging from the enthusiastic reports being received from Washington and Baltimore.

Specialization is the tendency of the day in commercial cut-flower growing. With some it is a matter of choice; with others, compulsion. An esteemed subscriber informs us of his purpose to devote his greenhouses, hitherto used for a varied crop, to marguerite growing, there being some half a dozen available varieties. We believe the step to be a wise one for, with daisies, as with all other flowers having an appreciable market demand and value, when a place becomes known as headquarters for the specialty where it can always be found in any quantity and full assortment, the trade will not be long in seeing the advantage. The specialist has every advantage in the way of cultural excellence and, with undivided attention to details small and large, will acquire a reputation for excellence and uniformity of product that should make him a winner over the promiscuous grower, every time. "There is nothing like getting the hang of your own business," is a saying preëminently true in these days. Every movement towards compactness, and every lop of scattered divergent interests is a step in a safe direction. Again, many greenhouse establishments more or less antiquated and hence unfit to compete with those of modern equipment on certain special lines might still be made to yield a good livelihood to their struggling owner if he would but abandon the effort to compete in a class for which his facilities are inadequate and devote his attention to some simple crop or rotation of such, selecting, if possible, something that the wholesale markets are not continuously overstocked with.

The fervid discussions aroused by the proposal to remove the stone wall separating Fifth avenue from Central Park and to slice enough off its eastern border to make room for a boulevard, furnish gratifying evidence of the pride the people of New York take in their beautiful pleasure-ground. Some of the arguments made by contributors to the daily papers, pro and con, are amusing to say the least. One individual writing to the *New York Herald*, urges the removal of the stone wall on the grounds that it is "a barrier against the capture of criminals who in fleeing from a policeman — usually of considerable corpulency — vault the wall and — good-by, crook!" It seems to us that the taking away of the wall and widening of Fifth avenue to a boulevard and promenade, while it might make a good feature as a boulevard, would utterly destroy the eastern boundary plantations, grass, and woodlands by the tramping over them in every direction, through the absence of any barrier. Central Park is invaluable as a breathing place for the tenement and apartment dweller and every foot of it should be jealously guarded in its dedication to such use. The advantages urged by the advocates of the proposed changes — the more attractive view from Fifth avenue, the acquirement of needed room for driving on the east side, the enhancement of this locality as a "show place" — are trifles compared with this consideration. The people of New York will do well to jealously guard against the smallest encroachment on the present boundaries of their park, or the slightest sacrifice of greensward and shrubbery. The greatest usefulness of such a public reservation lies in its benefits to those who have neither carriages nor automobiles, nor the means to take summer vacations in the country, and New York is well supplied with this class.

After Adjournment

Spring is the natural season of revolt against the rigors of civilization. — *Country Gentleman.*

Right you are! Let's go a-fishing.

"Country Life Questions and Answers" in *Suburban Life*, under the direction of Prof. S. T. Maynard, is an excellent feature of that handsome publication.

The *Market Grower's Gazette*, London, Eng., for May 19, publishes a lengthy quotation from the paper on carnation breeding, read by C. W. Ward at Champaign, Ill.

Anybody can set a hen, if she wishes to sit, and nobody can set her if she doesn't. — *Country Gentlemen.*

There is an analogy between hens and people.

A writer in *The Garden* recommends that fruit trees be syringed wih paraffin and soft soap in early spring to keep away bullfinches and other birds. If effective, this is certainly far better than the use of the gun.

The Nut Grower, published at Poulan, Ga., is an earnest little monthly which is doing good work in developing interest in commercial nut growing. This is a particularly promising industry, especially in the Southern United States, and offers a good field for wise investment.

The *Garden Magazine* for June, contains instructive practical papers on strawberries by James Wood, unusual vegetables by E. L. Fullerton, pruning shrubs by Leonard Barron, lilacs by John Dunbar. Other articles by sundry authors have some flippant things to say about the "local florist" the "hired man" and the "seedsman." Illustrations profuse.

The Crow and Cheyenne Indians of Montana, had their part in the floral ceremonies of Memorial day, when they covered with wild flowers the graves of General Custer and his men, killed in the massacre twenty-nine years ago. Among the Cheyennes were a number who had had a bloody hand in that massacre. Thus do flowers and civilization go hand in hand.

Referring to seedling primroses and polyanthuses, the *Journal of Horticulture* says, "Do not discard the smallest seedlings, as these invariably produce the choicest flowers." This is good advice as to other things besides primroses. Instances are not uncommon where notable varieties have come from the most insignificant seedlings, as vouched for by their raisers.

A bill passed in the recent session of the legislative assembly of British Columbia, fixes the license fee for each commercial traveler, agent, or other person taking or soliciting orders for goods, wares, merchandise, or other effects of any kind whatsoever, other than liquors or cigars, to be imported into the province to fill such orders, at $50 for every six months.

Forestry and Irrigation for May, describes a new species of juniper disovered in Texas, Juniperus Pinchoti. It appears to possess a marvelous power of sprouting from charred or cut stumps, thus persistently renewing itself and occupying fire-swept localities often to the exclusion of other woody plants. Evidence has been found of the third generation of sprouts, growing vigorously after fire.

As a result of the pure-food law passed by the Vermont Legislature last fall, and the enforcement of a similar law in Massachusetts, the Boston Fruit and Produce Exchange,which handles the greater part of the Vermont maple-sugar crop shipped to New England points, has sent circulars to the sugarmakers stating that all goods will be refused that are not properly labeled "pure maple sugar," or "syrup," or "compound maple syrup," with percentage of granulated sugar or other ingredients. Traveling men say that because of the law less than half the usual quantity of cane sugar was sold in the mountain towns of Vermont this season, with a proportionate smaller shipment of maple products. — *Country Gentleman.*

This seems rather severe on Vermont, but the traveling man's veracity is something we never question.

BEGONIA TRIOMPHE DE L'EST (TRIUMPH OF THE EAST)

Herewith please find a translation of the description of the new begonia as above, which is taken from Lemoine's catalogue for the present year.

"This new-comer is a brother of the Gloire de Lorraine obtained by us about a dozen years ago. It is a seedling from B. Socotrana and was fecundated by an unknown pollen parent. Not that the crossing was produced by chance, but because of the numerous trials of crossings attempted each year with the socotrana, it was almost impossible to keep a record of the numerous varieties tried as pollen parents.

"Whatever the crosses made we nearly always obtain seeds of normal appearance, but out of quantities of hybridations performed only a very few produce seeds that grow.

"The growth of the new variety under consideration is rapid and forms naturally a bushy mass, branching close to the ground-level and attaining as much as seventy-five centimeters in diameter. The stems are short, the leaves well developed, rounded and cordiform, slightly oblique, of good substance, and pale green.

"The blossoms which branch out indefinitely with their panicles of carmine-pink, cover the plant like a carpet, giving it that almost hemispherique appearance which is one of its characteristics. The male or staminate flowers, of four petals, of a beautiful satiny pink, succeed one another from January to June. There are no female or pistilate flowers. The buds, of carmine-red, are as decorative as the open blossoms and make of this plant a very desirable object, blooming later than Gloire de Lorraine.

This new candidate will be an excellent companion to the older beautiful variety, and is cultivated in the same manner producing a fairy-like effect when suspended in a hanging basket. A certificate of merit was awarded to it April 14, 1904, by the National Society of Horticulture of France."

EDWIN LONSDALE.

The Ginger Jar

The outlook for the man who does not salt nor sugar his stock is getting brighter and brighter.

Something for Job to think over: "Who stabs my name would stab my person, too, did not the headsman's ax stand in the way." It takes courage to fight in the open.

All men know the nice feel and smell of clean linen. Philadelphia is no longer corrupt and contented. It is *scrubbed* and contented now. Lincoln Steffens will please make a note of it.

That the S. A. F. Peony Association have done good work in the past two years is evidenced by the big increase in business, both roots and cut flowers. The other organization has helped of course. More power to us all!

The florist who hasn't time to read the trade papers and keep up with the procession has generally time enough to hold down a cracker box in the grocery store. I have seen quite a number of such men during my recent travels.

Councilman William Graham is the only member of the horticultural trade having the honor to represent Philadelphia at City Hall. He usually votes with the organization; but the spring cleaning in civic affairs in that corrupt and contented burg, finds him now in the roll-of-honor column. It was reported that he had run for cover when his constituents went after him on Wednesday when the battle was at its hottest; but Mr. Graham indignantly repudiates this. He is a high official in Sparta, and they were holding their twenty-fifth anniversary that night. That was all. The men of clan Graham ancestry may have lots of faults; but lack of courage was never counted one of the traits of the descendants of Claverhouse.

G. C. WATSON.

SPARROWS EATING GREEN FLY

We had a bed of roses in our garden in the west of Ireland. One spring the young shoots were thickly covered with aphides, and I saw a sparrow alight on the bushes, and, taking each shoot in turn in its beak about two inches from the top, it drew its beak along to the point, passing the shoot through its mouth. When the sparrow flew off I examined the bushes closely, and found that each shoot the sparrow had operated on was practically cleared of green fly, and was quite uninjured by the process. I admit it is the only useful thing I have ever known a sparrow to do. — H. E. SETON, *Clarendon Road, London, W.*

The above clipping from *The Garden* leads us to add a bit of personal testimony in behalf of the much-berated English sparrow. A few years ago, when the epidemic of canker-worms was at its height, the sparrows one morning made an onslaught on an apple tree on which were myriads of the pests. By night-fall not a vestige of canker-worm was left.

OBITUARY

Henry G. Flammer, retail florist of Detroit, Mich., died on May 22, aged forty-three years. He leaves a widow and four children. Many members of the Detroit Florists' Club of which he was a member attended the funeral.

NEWS OF THE CLUBS AND SOCIETIES

ST. LOUIS DOES THE RIGHT THING, AS USUAL

On Friday evening, May 26, a most enjoyable time was spent in the nature of a surprise party. About twenty of the leading florists including the bowling club and flower show promoters had arranged a banquet for Fred C. Weber and Theo. Miller who are leaving St. Louis, Sunday, May 28, for their trip abroad from which they expect to return about the middle of August, and as per agreement will meet the St. Louis delegation in the S. A. F. convention in Washington.

The committee in charge made preparations for an elegant banquet, decorating the table elaborately, in the center of which was a huge floral ocean liner, a representation of the *Hamburg* on which Messrs. Weber and Miller will cross the Atlantic. The two gentlemen having been led to believe that a flower show committee was to be held in the Missouri Athletic Club Hall, innocently strolled up the marble steps of the elegant apartment where to their great amazement they found themselves surrounded by a score of their best friends. After rendition of the first section of the menu, Emil Schray the old reliable secretary read the following resolution: "I move that in grateful acknowledgement of their services rendered as trustees of the Florists' club and as promoters of the coming grand flower show, *Be it resolved*, That we, the florists here assembled, extend to Messrs. Weber and Miller our best wishes for a pleasant journey and continued good health on their proposed trip abroad and return." This was promptly and vigorously seconded by Charles Beyer and others, and after unanimous adoption of the same, rising toast was given.

In due time it was announced that as a second surprise Mr. Miller would officiate as toast-master of the evening, and Mr. Weber would do honors as the principal speaker, which plan was elaborately carried out, as Mr. Weber spoke extensively on flower show topics which proved to be extremely interesting, and Mr. Miller in his newly acquired capacity made a decided hit. The other speakers were C. C. Sanders, Charles Beyer, Emil Schray, Otto G. Koenig, F. H. Meinhardt, E. W. Guy, G. B. Windler and Hy. Berning. Besides those already mentioned there were present, George H. Angermueller, J. F. Ammann, V. J. Gorly, A. Jablonsky, J. L. Koenig, C. A. Kuehn, Hy. Lohrenz, R. Thomson, and Rudolph Windt.

The floral decorations were very creditably executed by Mr. Rudolph Windt who was ably assisted by Mr. V. J. Gorly and the supervision of the general arrangement was in the hands of Mr. Otto G. Koenig.

NEWPORT HORTICULTURAL SOCIETY

Mr. W. Watts Sherman has offered fifty dollars to the Newport Horticultural Society to be awarded at the June and September exhibitions. $25 for a group of palms, ferns, foliage, and flowering plants in June, and $25 for a group of palms and foliage plants in September.

AMERICA POMOLOGICAL SOCIETY

The next biennial meeting of the American Pomological Society — the 29th in the history of the organization — will be held in Kansas City, August 8 to 10, 1905. The meeting goes to Kansas City at the earnest request of the Missouri Horticultural Society, backed by the horticultural societies of the Mississippi Valley and the western States in general.

JOHN CRAIG, *Secretary.*

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The Southeastern Passenger Association, which controls the territory south of the Ohio and Potomac and east of the Mississippi rivers, has authorized a rate of one and one-third fare on certificate plan, in coöperation with rate announced by Trunk Line Association, for persons attending the S. A. F. convention at Washington, D. C., August 15-18, 1905.

WM. J. STEWART, *Secretary.*

PLANT REGISTRATION IN ENGLAND

The annual report of the National Chrysanthemum Society of England, just received, contains the financial statement for 1904, schedule of prizes for 1905, lists of new introductions for this season, rules for judging, etc. The following notice, issued to raisers, importers and distributors of new varieties, embodies a plan on lines similar to that which has proved so useful a department in the annual work of the Society of American Florists.

The Executive Committee has decided that on and after the 1st January, 1905, a department of Plant Registration shall be instituted by the Society.

Raisers, Importers and Distributors of new varieties (whether Members of the Society or not) are requested to send to the Registrar, appointed by the Society, on or before the 31st December in every year, a list of all new varieties they intend to send out in the ensuing year. Such list to contain name and description of variety, name of raiser and distributor, and section to which the new variety belongs, on forms that will be provided upon application to the Registrar.

It is requested, if it be possible, to submit any such new varieties previously to the Floral Committee for classification.

The information thus obtained will then be inserted in the Schedule every year, and thus the Society's Official Catalogue will practically be kept up to date.

The Registrar at present is —

MR. HARMAN PAYNE,
141 Wellmeadow Road,
Catford, S. E.

HARTFORD FLORISTS' CLUB

The following resolutions were passed on the death of Alfred Whiting, the veteran West Hartford florist, who passed away on May 5, at the ripe age of eighty-one years:

Resolved, That by the death of Alfred Whiting, an honorary member of our florists' club and a veteran horticulturist, we feel that the horticultural interests of Hartford have suffered a great loss. During Mr. Whiting's long, honorable, and successful career he did much to advance the interests of horticulture in general, and as an estimable citizen and a man, he held the respect and esteem of the entire community.

Resolved, That the sympathy of the Hartford Florists' Club be respectfully tendered Miss Helen Whiting in her bereavement, and the corresponding secretary is now instructed to forward her a copy of these resolutions.

HORTICULTURAL SOCIETY OF NEW YORK

This society held its fifth annual exhibition on Wednesday and Thursday of last week at the Botanical Garden Exhibition Hall. The following prizes were given by the managers of the Botanical Garden and awarded by the council of the Horticultural Society:

Collection of flowering shrubs and trees, first prize to F. R. Pierson Co.

Collection of tulips, first to F. R. Pierson Co. Group of orchids, first to Julius Roehrs & Co.; second to Lager & Hurrell.

Collection of succulent plants, first to Frank Weinberg; second to Miss Gertrude Padwick. Collection of fresh vegetables, first to Mrs. J. B. Trevor, Howard Nichols, gardener. Azaleas or rhododendrons in bloom, first to F. R. Pierson Co. Collection of ferns in pots and pans, second to F. R. Pierson Co. Four ferns in pots, first to Miss Padwick, of Woodside, L. I. Collection of daffodils, first to F. R. Pierson Co. Siebrecht & Sons, and the Botanical Garden also staged fine exhibits.

NOTES

The Melrose (Mass.) Amateur Gardeners Association will hold its annual exhibition in the City Hall, June 17.

The New York bowlers will practice every Friday evening at Thum's Alleys, corner Broadway and 31st street, for averages on which to select the team to represent New York at the Washington S. A. F. convention.

The annual rhododendron exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday and Sunday, June 3 and 4. The pæony exhibition will take place, Saturday, June 10.

The Kentucky Society of Florists will hold its next meeting at Louisville, Ky., on Tuesday night, June 6, and a good attendance is anticipated owing to important business that is to come up. Several new members will make their début at this time.

The Society of American Landscape Architects will hold its annual meeting at Boston, on July 7 and 8. Headquarters will be at the Somerset, and visits will be made to the parks and prominent suburban estates. John C. Olmsted will give a historical sketch of the Boston park system.

The Milwaukee Florists' Club will hold a flower show at Broadway armory in November, $1,000 in prizes to be offered. The committee on arrangements consists of Charles B. Whitnall, W. A. Kennedy, and Robert Zapnick and the committee on prizes of C. C. Pollworth, Chris Valom, and Alexander Klokner.

The Washington Florists' Club will publish a souvenir album for distribution at the S. A. F. convention next August, in honor of that important event. The book will contain about fifty specially prepared full-page views of the most interesting and beautiful public buildings and art objects in and about the great capital city, and neither time nor expense will be spared in producing a volume that will be a credit to all concerned. Advertisements are solicited by the committee and a liberal use will undoubtedly be made of its pages by the enterprising firms soliciting florists' business. J. R. Freeman, chairman of the committee, 612 13th st., will give full particulars to all inquirers.

How Would You Like to be a Royal Gardener?

ROYAL GARDENERS'

ORPHAN FUND

SEVENTEENTH

Annual Festival

MAY 11th, 1905

CHAIRMAN

The Rt. Hon. The EARL OF MANSFIELD

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Wins

Chablis

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Beaune Clos du Roi 1895

Champagnes

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Bollinger, Ex Dry 1893

Port

Dow's Old Vintage

Cognac

Liqueurs Assorties

Mineral

MENU

Œufs de Pluviers

Printanière aux Quenelles
Crême St. Germain

Darne de Saumon. Sauce Chablis
Salade de Concombres
Blanchailles

Poussin à la Balmoral
Mousse de Jambon au Champagne

Selle d'Agneau à la Broche
Champignons Pommes Nouvelles

Sorbet au Kummel

Caneton d'Aylesbury Rôti
Salade. Petits Pois à la Menthe

Asperges. Sauce Mousseline

Fraises Melba Glacées

Dessert

Cafe

PROGRAMME

GRACE "For these and all Thy mercies" *A.D. 1547*

Toast — The King

Proposed by THE CHAIRMAN

NATIONAL ANTHEM "God Save the King" *Dr. John Bull*

Solo — MISS GERTRUDE MAXTED

Toast — Her Majesty Queen Alexandra (our Patron), the Prince and Princess of Wales, and the other members of the Royal Family

Proposed by THE CHAIRMAN

GLEE "My love's like the red, red Rose" *Knyvett*

Toast — The Royal Gardeners' Orphan Fund

Proposed by THE CHAIRMAN

Responded to by LEONARD G. SUTTON, ESQ. *Trustee*

SONG .. "Comin' thro' the Rye" .. *Scotch*

MISS GERTRUDE MAXTED

RECITATION "The Motor Ride" *Marsh*

MR. WALTER G. CHURCHER

Toast — Gardeners and Gardening

Proposed by HERBERT HICKS, ESQ.

Responded to by W. A. BILNEY, ESQ.

SONG "The forlorn Lass" *Arr. by C. Bunten*

MR. W. L. COCKBURN

SONG . "My ain Folk" .. .. *Lemon*

MISS EDITH TURNER

Toast — The Visitors

Proposed by EDWARD SHERWOOD, ESQ.

Responded to by The REV. J. C. EYRE KIDSON

SONG "Take a Pair of Sparkling Eyes" *Sullivan*

MR. ERNEST PIKE

RECITATION "The Ambulance Man" *Anon*

MR. WALTER G. CHURCHER

Toast — The Chairman

Proposed by H. B. MAY, ESQ. *(Chairman of the Committee)*

SONG "The March of the Cameron Men" *Scotch*

MR. W. L. COCKBURN

Toast — The Press

Proposed by DAVID P. LAIRD, ESQ.

Responded to by DR. MAXWELL T. MASTERS, F.R.S.

SONG .. .. "April Morn" .. .. *Batten*

MISS GERTRUDE MAXTED

SONG .. .. "My Dreams" .. .. *Tosti*

MR. ERNEST PIKE

FINALE **Auld Lang Syne**

Musical arrangements under the direction of Mr. TURLE LEE

Hitherto, we confess to a certain self-complacency in the matter of club banquets and society dinners, tempered, however, with a touch of conscience-smiting after listening to an occasional criticism of the "dreadful extravagance" indulged in at these social affairs of the wayward American gardeners and florists. But, where stand we now in the light of the little menu which we herewith reproduce for the edification of gardeners and critics, alike. We learn from a local account of the affair that Lord Mansfield's pipers (a father and his three or four sons) played the company in to dinner. It is worthy of notice that "The Ambulance Man" follows close on the toast to "The Visitors!" The man who wouldn't wish to be a "royal gardener" after reading through the above — well, we are sorry for him! As for ourselves we simply "throw up the sponge."

A REMARKABLE COLLECTING TOUR

The following interesting note is clipped from the *Journal of Horticulture's* account of a paper read at the monthly dinner of the Horticultural Club, London, by E. H. Wilson, describing some phases of his recent exploring trip in China.

"Among other things, the truly marvelous character of China as the source of new and valuable plants, and the immensity of the field which still remains to be explored, were illustrated by the fact that while it is possible to traverse the European Alps on foot in a few days, it would need double as many months to cross that vast mountainous area in China and Thibet, which is really an uninterrupted continuation of the mighty Himalayan ranges of India. Every fresh region explored yields a fresh series of new and rare plants, and despite the five years research of Mr. Wilson, and the twenty years of Dr. Henry, the regions they have both explored represent the merest patches on the map, as compared with the whole area.

"What must we think of a country in which a single hill yielded seventy species of ferns alone, and a single district 300; while innumerable genera of other plants represented by a few species hitherto, are there found represented by scores of distinct ones, even the rhododendron ranging from huge trees a hundred feet high, down to the tiny alpine plants under its varied specific forms? Vivid pictures were drawn of mountain flanks entirely clothed with floriferous shrubs and herbaceous plants, such as the newly introduced Meconopsis integrifolia, a huge sulphur yellow poppy which, as Dr. Henry said, seemed to have tried to be a tulip, so like are its huge blossoms, and of which a fine specimen appropriately faced the president. A very large number of quite new herbaceous plants have been introduced by Mr. Wilson, and this one is one of the first to declare itself, and many others we are told are bound to follow soon; while some of the floriferous trees and shrubs on the list of introductions are predicted to become unique marvels of beauty as soon as they have reached the flowering stage in Messrs. Veitch's skilful hands.

"In these days of facile travel, we are apt to assume that little more remains to explore of the earth's surface, but it is abundantly obvious from Mr. Wilson's and Dr. Henry's remarks that in China alone there is a practically inexhaustible field, while, thanks to the lofty elevation at which most of the treasures are found, they are mostly perfectly hardy, and thus admirably adapted for general culture and enjoyment, instead of being confined to the stoves and warm houses of the wealthy. Allusion was made to the fact that a large number of plants whose botanical name of japonica indicates Japanese origin, are more properly Chinese, and in many cases were introduced thence into Japan."

PERSONAL

George Northway has been appointed gardener at Woodlawn cemetery, Nashua, N. H., to succeed Henry Dehlman who has resigned the position.

Hans J. Koehler has resigned from his position as landscape-gardener of the Essex County (N. J.) park system and accepted a position in the employ of Olmsted Bros., at Boston.

The following eminent gentlemen have visited Boston the past week: C. B. Weathered, Leonard Barron, New York; E. J. Harmon, Portland, Me.; Gibson Bros. and Arthur Merritt, Newport; P. R. Quinlan, Syracuse, N. Y.; David Fairchild of Dep't of Agriculture, Washington.

NOTES ON THE CULTIVATION OF PÆONIES

By Robert Tracy Jackson

[Continued from last week's issue]

Delicate-colored pæonies lose their color more or less in strong sunshine, so that for very best results they may be shaded to advantage. By shading I have retained delicate shaded pinks in flowers, which were entirely lost in flowers of the same variety grown a few feet away, but not shaded. Of course opening flowers in the house has the same effect as shading, saving the delicate colors, and some of the finest blooms one sees are flowers thus opened off the plant.

Pæonies have a great mass of petals, at least the double ones, so that when picked there is a large surface for loss of water. Such being the fact it is important that they be put into water as quickly as possible after cutting. The best method is to carry a pail or can of water into the garden and put the flowers instantly into water, not even waiting to cut a second bloom. Experiment has demonstrated that flowers thus instantly put into water will outlast flowers kept even a few minutes without water. This is especially important for flowers that are to be exhibited, or shipped to a distance. When a pæony is on the plant there is a continuous flow of sap to the flower. On cutting, this flow being shut off, from the suction thereby inaugurated it is quite probable that air particles are sucked in. If this is true, such air particles would tend to obstruct the vessels, interfering with the succeeding flow of water. This view is suggested to me by Dr. J. L. Goodale, as he says, in surgery one of the most important details is to prevent air or other foreign matter being sucked into the veins when they are cut, thus causing occlusions. If cut pæonies are to be shipped they had best be kept ten or twelve hours in water in a cool place, when they become surcharged with water and travel vastly better than fresh cut blooms. The same principles as regards cutting doubtless would apply to most other flowers as well.

Some method of keeping track of the names of pæonies is a necessity to any careful gardener. When planted in rows or widely scattered, lists may suffice, but the best method is good labels, if supplemented by a list so much the better. Ordinary wooden labels six inches or even a foot long are practically worthless, being soon lost by decay or broken by garden operations. Heavy wooden labels, white pine, cypress or cedar, eighteen inches to two feet long, of seven-eighths inch stock, with the ends dipped in tar, or well soaked in linseed oil, then painted on both sides, reserving a space for writing, and the name painted or written on them, are excellent, but expensive and conspicuous.

A label that is cheaper, simpler to prepare and less conspicuous as far as that feature may be desired, is a zinc label attached to an iron rod. Such labels I have used for over twenty years with entire satisfaction. The rods to which the labels are attached are two feet long, made of heavy wire one quarter of an inch in diameter; an eyelet is bent in the top and the rod galvanized after the eyelet is bent. This is an important point as galvanizing seals the opening of the eyelet. Such label rods are made to order for five dollars a hundred by wire workers in Boston. Shorter or lighter rods are less desirable as they do not go into the ground far enough to have a good hold, or are liable to be bent in gardening operations. Rods with an end flatened and an eyelet punched in it as sometimes sold are undesirable, being so sharp as to be dangerous in a garden. They are also too short and are not of sufficiently heavy stock. Zinc labels are kept in stock of various sizes to suit customers. I have preferred the English labels, number 21, measuring four inches long and one and one-fourth inches wide, with two holes punched in one end. They are large enough for any names, which smaller labels are not, and yet they are not conspicuously large.

Fresh clean zinc may be written on with chloride of copper, or chloride of platinum ink, which makes a strong black mark. As some trouble has occurred from effacement of the writing ink from corrosion of the zinc, the following method was adopted which is most satisfactory. New labels are oxidized by exposure; practically they are simply thrown on the ground in some out of the way place and left for a month or two. When the surface is roughened slightly by oxidation they are ready for use. Rub a little rather thick oil paint on the label with a rag, then write with a soft lead pencil while the paint is fresh. Such a label I have used for over fifteen years and it is almost imperishable if kept above the manure about plants, which will corrode the zinc badly. The label is attached to the rod by copper wire, which is vastly superior to galvanized wire, as the latter soon rusts and drops off, or at least soils the label. It is claimed that there is galvanic action between the copper and zinc, but after long experience I am confident that this is an error under open air conditions. In the moist air of a greenhouse such galvanic action may take place. Aluminum wire for attaching labels would probably be excellent. At the Arnold Arboretum zinc labels have been nearly worn through by the attaching wire in a short time; but there they are in trees well up from the ground and the wearing away is evidently mechanical from wind action.

To clean old zinc labels for use again they may be soaked in xylol (probably also in many other chemicals), which softens the paint, then scraped off with a knife and sand paper. The label has to be oxidized again by exposure before it is ready for use. Small unpainted wooden or paper labels for plants often have the name printed on them with rubber type, which is set up in a holder and is very convenient. The aniline rubber stamp ink used however is most objectionable, as it fades out entirely in a very short time. An absolutely permanent ink may be made as follows: To three parts of glycerine add gradually one part (by bulk, not weight) of a high grade of lamp black. Grind in a mortar until of the consistency of rather thick syrup. Spread on a thick felt pad, which is used for inking the type in the usual fashion. The pad for convenience may be kept in a tin box with a cover to exclude dust. This ink, described in 1898, I devised for museum labels and it stands weather, water, and alcohol with impunity.

In order to maintain satisfactory lists of plants in a garden, some sort of a plan of the garden is necessary. A very convenient and simple plan is one devised by my father, the late Dr. J. B. S. Jackson, and which I published in the Transactions of the Massachusetts Horticultural Society for 1884. The plan is to number the fence posts in one direction as east to west, and letter those at right angles as from south to north. This forms a sort of latitude and longitude by which a plant may be located in one's catalogue or lists. If fence posts exceed in number the letters of the alphabet, additional letters may be taken from distinctive letters of the Greek alphabet, or a modification of the Roman alphabet as AA, AB, AC, etc. Roman numerals are inconvenient for such use as being more to write, harder to read, and easier to make errors with.

A garden catalogue or lists are best written with Higgin's waterproof drawing ink which stands prolonged soaking without injury and cannot fade. In a recent experiment I soaked writing with this ink for eight weeks, immersed in water, without affecting the ink. This withstanding water with impunity is very desirable, as it is extremely annoying to have the ink of one's catalogue blurred, or even obliterated, by a splash of water, which with most inks occurs so easily from rain or otherwise when working over lists in the garden. This ink or a similar high grade carbon ink is also valuable for transient paper labels used in hybridizing, etc., and for shipping directions, or labels for exhibitions. On exhibition tables the labels of peonies and other flowers, or potted plants, are frequently defaced or even obliterated from accidental wetting, which so easily happens under such conditions, and is absolutely prevented if a suitable ink is used.

Unless supported in some way the larger, heavier pæonies are apt to be beaten down when in bloom by wind and rain and seriously injured. To obviate this difficulty some form of support is highly desirable. When planted in rows stakes may be driven into the ground at intervals, with a connecting wire run along the top; cross wires or light sticks secured to the connecting wires between plants are a material help. Another method, and one used by the late Mr. John Richardson, is to drive down two or three stakes around each plant, connecting them by a stiff wire stapled to the top of the stakes. Barrel hoops attached to stakes make very good supports, but are limited in size and are rather conspicuous. A most satisfactory support, the best I have seen, devised by W. C. Egan, with slight modifications of his description is made as follows. Three iron rods three feet long, are made of heavy wire one-quarter of an inch in diameter, an eyelet is bent in the top, and the rods are galvanized after they are cut and bent. A circular connecting wire of lighter weight, one-eighth of an inch in diameter and six feet, six inches long, is passed through the eyelets and made secure by looping the free ends over the wire in such a manner that they will slip on the wire. Thus one can have the circular wire of full size, or reduced to any smaller diameter desired, and held in the reduced size by tying one end. Such supports are very inconspicuous, being practically invisible in a well-grown plant, and have given satisfaction to several pæony growers who have tried them.

According to J. G. Baker in his revision of the species there are about two dozen species of peonies. He lists twenty-two species with their synonyms. R. I. Lynch lists and describes twenty-five species and figures the foliage of many of the species. Excepting P. tenuifolia and perhaps P. Wittmanniana (which is somewhat difficult to grow) most of the species are said to be not striking as garden flowers, and are of interest principally to the collector. They might of course be of value in hybridizing, to break the blood of cultivated forms.

The earliest pæony to bloom is Pæonia tenuifolia, both the single and double forms, which appear in May. The flowers though small, are of brilliant coloring, and well worth growing. Next in succession comes Pæonia officinalis var. rubra, the old-fashioned double red peony of our grandmother's garden. Its superb color, freedom of bloom and large size when well grown render it one of the best of peonies and indispensable in a garden. Pæonia officinalis var. rosea, a fine nearly cherry red variety of much merit, and var. alba which is a delicate pink on opening, changing to white before fading, are important additions, both as being good pæonies, and as coming early and therefore extending the season of bloom. Other varieties of officinalis are listed in foreign catalogues, but I have not seen them.

Tree pæonies, or P. moutan varieties, come with the officinalis and extend over to the season of the Chinese pæonies. Pæonia moutan, according to authorities (Lynch), is

not known in the wild state, being known only in cultivation, first in China and Japan, where it has been grown for a very long period of time. Professor Charles S. Sargent writes me that he does not know of it in the wild state, but believes that it will sooner or later turn up. It is a somewhat remarkable fact that a large growing shrubby species, and the only shrubby species of the genus, should be known only as a cultivated plant. Tree pæonies are not as easy to grow as herbaceous pæonies, are less hardy and more difficult to propagate, also it is not as easy to get really choice varieties. As far as known, all the tree pæonies in the market are grafted on moutan, albiflora or officinalis stock. Auguste Dessert claims that they do best grown on moutan stock, although it is difficult to get roots of this stock large enough. He says that they use Sinensis [a variety of albiflora] stock and cut scions with two or more eyes and so disposed that at least one eye is beneath the surface of the ground; this eye greatly encourages the formation of roots in the graft. Kelway gives interesting notes on raising moutan seedlings and in regard to grafting says: "First procure a sufficient qauntity of tubers of P. Sinensis; cut these into lengths of about six inches; then take grafts from the sorts you wish to increase and insert these into the upper end of the tuber in the ordinary way of cleft-grafting, tie securely and cover the junction with grafting wax so as to exclude the air. These should now be potted into five-inch pots, using a rich compost; the pots should be plunged into frames unheated; give a good watering, and cover the frames with a thin mat to partially exclude light. In the winter they should have an extra mat to protect them from severe frost. The best time to perform this operation is in the months of August and September." Tree pæonies do well on officinalis stock as I know from experience. The Japanese I believe graft on moutan stock alone; but one difficulty with that is that shoots from the stock cannot be distinguished from shoots from the scion until blooming, whereas shoots from albiflora or officianalis stock are detected at once. Layering as suggested by some writers, though slow, would doubtless yield most satisfactory plants.

The Chinese pæonies of the Pæonia albiflora stock come next in season of bloom. The varieties as known appear to be the results of variation of the stock, hybridization, or the crossing with other species, having entered in a very little if at all, as far as one can judge from the character of the foliage. They are in bloom about the first of June for the earlier varieties and extend into July for the last blooms of the later varieties. The single varieties are usually amongst the earliest to bloom, but some double varieties are nearly as early. In the past two years the early Richardson seedling, George B. Sowerby, has been in full bloom on the fourth of June. The latest of the choice seedlings raised by Mr. John Richardson, named Milton Hill, this year had secondary blooms still left in July. We may therefore by selection, starting with Pæonia tenuifolia, get about six weeks or a little more of flowering season for peonies. It would be desirable for dealers in peonies in their catalogues to give more explicit statements of season of bloom, especially the earliest and latest varieties as an aid to purchasers.

In considering the qualities of a pæony, color and form are of the first importance. Freedom of bloom is also an important feature, for some varieties while of good form and color are such shy bloomers that they are from this quality not desirable for the general cultivator with few varieties. Extra freedom of bloom on the other hand is a feature especially desirable. One other point of much importance is strength of stem. Many fine pæonies have such weak stems that they flop over hopelessly from their own weight, others stand erect, thereby developing their flowers much better and showing off to infinitely greater advantage in the garden. Lasting qualities is a feature of importance, especially to the dealer in cut blooms.

Seedlings of Pæonia albiflora varieties require four to six years to bloom. The seed should be planted as soon as ripe in rich, mellow soil, if protected by frames so much the better. They are best left without disturbance until blooming, but if planted too thick, will have to be transplanted. Very double flowers rarely set seed, yet an occasional capsule will develop on an otherwise sterile plant. Harrison says that: "Seedlings will often bloom single for years and then turn double." I have never seen such a case. Doubtless seedlings may improve in size and quality with age, but as far as my experience has gone the first bloom, if strong, is a very close indication of what may be expected as the permanent character of a seedling.

It would be highly desirable for pæony dealers to insert in their catalogues after the names of varieties the name of the originator. It is only fair credit, and adds much to the interest in these and other plants to know something of their history, who raised them and when. This is done somewhat, but rarely systematically as it should be. Messrs. W. A. Peterson of Chicago, and C. W. Ward, of the Cottage Gardens, Long Island, in their catalogues for 1904, note the originators of pæonies very fully, also the Lemoines of Nancy, France, do the same, though not as fully; on the other hand, the Kelways, of Langport, England, list their own seedlings, but ignore the names of other growers.

The American Pæony Society is studying the nomenclature and seeking to ascertain as far as possible when and by whom each variety was raised. The results of their inquiries are looked forward to with interest. Professor John Craig of the Horticultural department of Cornell University, at Ithaca, New York, in conjunction with the American Pæony Society, is attempting to collect and grow all the known varieties of herbaceous peonies. By this means the synonymy can be straightened and the really best varieties ascertained. He has already gathered over six hundred varieties, which are to be grown in a fine piece of land well adapted for peony culture. Such experiments are of a high degree of value and interest, carried on by recognized experts, under auspices of an impersonal character, and where they can receive the benefit of a critical study best found in such a horticultural center. Similar studies of other groups of cultivated plants it is believed would be productive of much good.

Another thing that might well be done by the American Pæony Society, or by a horticultural society, or journal, is to prepare and publish a bibliography of the literature of the pæony, including references to published figures of species and varieties. Such a bibliography could, to advantage, be annotated by the editor. Many short but important articles are apt to be overlooked, and a cultivator wishing to see a figure of a given variety, or species, may have a long search before finding it, or may take the trouble without reward, because no published figure may exist. Bibliographies of special topics are an important feature in scientific subjects, and it seems that no more important matter could be taken up for the advancement of horticulture than lists of published papers, or larger works, on our more important cultivated plants.

ENGLISH NAMES FOR FLOWERS

The recent notes upon English names for flowers are especially interesting to those who find in them a touch of poetry or a suggestion of old-time domestic lore. In newer lands, however, such names may easily become misleading, as they are often applied in recognition of a fancied resemblance. Here, in New Jersey, Caltha palustris, one of our earliest spring flowers, is generally called Cowslip, though it is also known as Marsh Marigold and Swamp Buttercup. The name Honeysuckle is here applied to the native Columbine, Aquilegia canadensis, and also to two Rhododendrons — R. viscosum, called White Swamp Honeysuckle, and R. nudiflorum. For the latter I prefer the name of Pinxter Flower, given by the Dutch settlers in recognition of its Whitsuntide bloom. The large, fleshy galls, pleasantly acid in flavor, produced on this Rhododendron by a gall fly, are called Pinxter Apples. We find the fragrant little Epigæa, the Mayflower of New England, described as Ground Laurel, Trailing Arbutus, and Shad Flower, the latter being its name along the New Jersey coast, where it is in bloom when the shad is ascending rivers to spawn. Here Amelanchier canadensis becomes Shad Bush. When in the middle west I was surprised to hear Forsythia called Golden Rod, which was distinctly confusing. Then there is Bittersweet, which I think in England means Solanum Dulcamara; here it means Celastrus scandens, also called "Waxwork." The graceful wild Carrot, an "assisted emigrant," from Europe, is called Queen Anne's Lace or Bird's-nest; I admire it greatly from an æsthetic standpoint, but it is a most pestiferous weed. The Massachusetts Legislature is now considering a special Bill directed against it. Side-saddle Flower seems rather far-fetched for the Sarracenia, but one has the choice of Whip-poor-Will's-shoe. Ghost Flower seems more appropriate than Indian Pipe for the ghastly Monotropa. I cannot close without expressing my undying disgust for the unpoetic soul who first called Kalmia latifolia "Calico Bush." Of course, the name sticks, though we insist that it is Mountain Laurel. — EMILY TAPLIN ROYLE, in *The Garden*, May 13, 1905.

MEMORIAL FLOWERS

Tributes to those who have passed beyond the barrier, in the mysterious travel of the human lot, mean something to the living, whether we can or cannot hold fast to the tender hope that in this way our love is somehow made known to those so long silent. Flowers give one of the most natural means of expression for this conscious loyalty and remembrance. With their delicate appeal to the spiritual sense and their loveliness, which surely partakes of the character of the ideal, they are far more in harmony with the longing of the heart than are those more permanent symbols of grief in marble or granite which we erect as witnesses to lives no longer tethered to earth. Those stony memorials suggest to some of us perplexing thoughts, so useless are they for any service, so hard, unbeautiful, and unsatisfying to the finer sense. In every local cemetery how many thousands of dollars are expended by the community that might, we sometimes think, subserve a better use.

The observance of Memorial Day brings no such questioning. — *Country Gentleman.*

Ward's Pond, Olmsted Park, Boston



The illustration shown herewith was used by us as a frontispiece a few weeks ago, but without descriptive notes. The number of inquiries we have since received regarding the material used in the planting, etc., seems to indicate a widespread interest in the subject of aquatic gardening, and in deference thereto we again present the illustration and give the following list of water and bog plants used in the planting by Mr. Pettigrew of the Boston Park Department.

Zizania aquatica or wild rice grass; the tall grass seen in the foreground. Iris Pseudo-acorus, a European iris. Sagittaria variabilis or common arrow-head. Pontederia cordata or pickerel weed. Decodon verticillata; there is in a lake near Milwaukee, Wis., an island formed by the interwoven roots of this plant. Scirpus or flags in variety. Juncus in variety, native reeds. Lythrum salicaria, purple loose-strife. Senecio clivorum. Alisma plantago or native water plantain. Ranunculus Lingua, a British wild plant. Caltha palustris or marsh marigold.

These are mostly bog plants and are used around the borders of the pond. Out in deeper water is a fringe of water lilies, the whole arrangement forming a very attractive picture.

CATS vs. BIRDS

The following pathetic defense of the cat as a gardener and indictment of the blackbirds and thrushes, appears in *The Garden* London, for May 13th:

The article entitled "Round About a Garden" in your issue of the 29th ult. is in such direct contradiction to my experience that I feel impelled to give the other side of the picture. Your contributor remarks that it is "for want of blackbirds that slugs abound," and makes a great onslaught on the harmless, necessary cat. It is three years since I had the misfortune to lose my cat, shot by a gamekeeper. Since then the birds have made very free with my garden, and blackbirds and tits nest all over it. I eed them in the winter. In the spring the tits destroy the Cherry-buds and strip the bush fruit. Later on they peck holes in the apples, so that these have to be harvested before they are ripe. The blackbirds and thrushes are so assiduous at the strawberry beds that no netting but wire-netting will keep them out. They tear at fish-netting with their strong beaks till they have made a hole large enough to wriggle through. Of course, the sparrows pull the heads off primroses and polyanthuses and crocuses and even fritillaries, and if they do eat green fly, as Mrs. de Lacy-Lacy says, they do not seriously diminish their numbers, for I have to syringe my roses twice a week and "hand-pick" the grubs. Meanwhile the slug pest goes on unabated. I never saw a blackbird burrowing for slugs, though he does seem to get some leather-jackets. He goes to bed when the slugs come out to feed, and I gather them myself in thousands by lamplight. My cat was a most useful gardener, for she kept the pretty birds at a distance, and now that voles, wood mice, house mice, and rats have taken to devouring crocus bulbs, iris roots, and the young green of my carnations and columbines, I think it is high time to call in the coöperation of pussy. — H. M. SWANWICK, *Knutsford, Cheshire.*

TREE PLANTING IN NEWARK

A lot of good work has been done by the municipal tree planting commission of Newark, New Jersey, which was appointed last October. Its report shows that more than 750 fine trees have been planted. Besides planting trees, the commission has seen to it that the fine elms in the several small parks in the center of Newark are not devastated by scale or insects. The length of street planted on both sides is estimated at five miles. The cost of the trees was assessed on the property owners. None of them objected, and all appeared to like the idea of having good shade trees in front of their buildings. Property owners who desired to plant trees on their own responsibility were encouraged and assisted in making selections by the commission. About one-third of the entire number of trees set out are elms, either of the American or Norway sort. There were many linden and poplar trees planted also. — *Amer. Civic Asso. Clipping Sheet.*

CUT-FLOWER MARKET REPORTS

BOSTON This market has undergone a great cleaning up of all bright and moderate-priced flowers. It is no surprise that the high-priced special Beauties were in evidence in the wholesalers' storage boxes after the trade was done, for the Decoration Day demand does not lean to extravagance in this direction. There is also left unsold a certain surplus of white material which is always in excess at this time, such as astilbe, stock, lily of the valley, etc., and in sympathy with it the exotic flowers — Bride, Kaiserin and Carnot roses and all white carnations also hang fire. On the other hand, all colored material has had an enormous call carrying along with it, of course, an immense quantity of white. Nothing sold better than the lower grades of American Beauty roses, there being apparently no limit to the capacity of the market for the short-stemmed, low-priced cut. The aggregate of flowers sold through all channels was, according to the estimates of good judges, the largest ever handled in the same period of time in this section. Neither pæonies nor rhododendrons were in bloom here. Market prices on colored roses and colored carnations – particularly the scarlets and deep reds of the latter, started at a pretty stiff elevation and remained there, throughout. A good many roses and carnations of ancient mien were in evidence; these found in the street peddler their only friend and the price they brought — low even from the standpoint of the street speculator — was all the stuff was worth.

BUFFALO This year's Decoration Day business has been one of the best on record. The dull business of the early part of last week gave way to a lively awakening and at the end of the week a good hustle was on. There was a strong demand for pæonies, but they were unobtainable. The supply of carnations was limited and prices ruled high. Roses moved well except in the case of the high-grade Beauties which were in light demand. A good supply of outdoor material came in and sold well. White stocks found a good market on account of an unusual demand for funeral flowers. Lilies, sweet peas, and gardenias were in heavy supply and sold well.

CHICAGO The condition of the market for the greatest floral holiday of the year goes on record as the biggest ever experienced.

The largest growers here, who added immense blocks and ranges of glass the past year, report the Decoration Day demand away above their increased supply, and shipping trade far ahead of the record. The heaviest shippers in Chicago credit it to advertising in HORTICULTURE and it can be proven HORTICULTURE has already widened the field of demand. It was on American Beauty where the demand was light, the heavy cut being far above the needs of the trade. Liberty, Bride, and Bridesmaid, fared better; the whole available supply was consumed, the best sales being on medium and lower grades. The carnation was queen of flowers this 30th of May, if the unprecedented demand would indicate anything. Colored carnations were in preference and the climax came on Saturday, Sunday, and Monday, when the demand was such that all orders were only partly filled. It is conceded that at least a quarter million more were necessary to fill all orders complete. Pæonies again have proven an all-important feature at this season. The supply was lighter than last year. Home-grown stock being held back by the cool weather. This year's southern supply was more easily controlled for Decoration Day by securing the crop in cold storage. Lilies were equal to the demand and cape jessamines were in over supply, but of finest quality. Lily of the valley had a good call, both outdoor and indoor stocks being very fine. Ferns have advanced. All other green goods in ample supply.

CLEVELAND Monday was a big day for the sale of plants. In front of the cemetery entrances and all along the sidewalks for blocks were lined up stands filled with plants in great variety, hanging baskets already filled, hanging on tripods, bouquets for immediate use, etc. The sale of plants was unprecedented, geraniums taking the lead, salvias next. Hydrangeas also sold well. Thousands of plants of all kinds were bought by school children to decorate graves of soldiers. Wholesale prices on geraniums, salvias, and cannas were $6.00 to $7.00, coleus, $3.00, caladiums, $7.00 to $8.00 per 100, and hydrangeas and ramblers from 35c. to $1.50 each.

The cut-flower trade was excellent. There were some very pretty window displays, symbolic of Decoration Day.

LOUISVILLE Business conditions moderately satisfactory during the past week. All cut flower stock abundant. Pæonies at their height and exceedingly popular. Carnations and roses fair to medium, with good demand. Sweet peas and promiscuous flowers in good supply and selling well.

NEWPORT This year Decoration Day eclipsed all former occassions. Helping to make it such was the elaborate ceremony just inaugurated by the ladies' auxiliary of the G. A. R. attendant on the strewing of flowers on the water, which took up great quantities of cut flowers. In former years, also, it was the custom of the veterans to rely in great part for their supply on the generosity of others, whereas this year for various reasons the flowers were obtained in great measure under conditions vastly more encouraging to those whose business it is to grow and sell. The fact that Decoration Day has become a recognized occasion by every one for a tender and visible remembrance of departed ones, has now placed the day among the foremost in business importance to dealers in plants and flowers.

Local dealers had to draw upon out of town sources to a considerable extent, especially for the more expensive flowers which were used to a far greater extent than formerly.

For plant decoration the most in demand were geraniums, pink being the favorite color and Poitevine the variety in greatest demand. There has been an unprecedented run on this variety all spring. Begonias were also purchased and planted in large quantities.

The great advance in the volume of business carried with it a slight advance in prices, but Decoration Day is never taken undue advantage of in regard to prices. Dealers are, as a rule, generously contented with larger sales, and that is what ought to be most desired.

The people of Newport have unquestionably done their share toward making Decoration Day the most distinctive floral day of the year.

NEW YORK The volume of business was largely augmented on Saturday and Monday, in consequence of the heavy demand from cemetery florists. Their requirements were met by a large supply of outdoor stock, also carnations and roses of which there was an abundance. The carnation held the lead in general favor; roses were not called for in sufficient quantities to cause any advance in prices. Carnations still hold their own better than the roses do, the change for the worse in the case of Beauty, Bridesmaid, and Bride becoming more apparent daily.

PHILADELPHIA Early part week preceding Memorial Day, pretty good; latter part much better; prices stiffened and stock was not nearly as plentiful. Roses moved well under a plentiful supply, and prices were as good if not better than might have been expected. Carnations were scarce towards the last, but a good deal of poor stock had been salted and came in with a slump towards the last. They went to the dump mostly. The fellow with poor stock seems to be the fellow with the salting fever ingrained, and no amount of telling nor experience seems to make any impression on him. The prediction of from two to five for carnations in our last week's notes was realized for fine stock, although the five grades were few and far between.

Pæonies on account cool nights, were not as plentiful as expected in our market, nevertheless enormous quantities came in from various points and everything was swept up clean by the 30th. Ed. Swayne's Festiva Maxima went readily at $1.50 and $2 per dozen and the general run of stock readily brought 75 c. to $1. Wagon load after wagon load went out from Pennock's and Niessen's on Sunday and Monday to all points from Portland to Pittsburg, and it is safe to say that this year has been the greatest outside shipping for cut flowers ever experienced. Sweet peas came in for a good deal of popular demand especially for funeral work, but they are not big and showy enough for the general Memorial Day trade.

There was no extra demand for lily of the valley. Quality was very good. Outside stock is now over; but latter does not cut much figure in this market and has never affected normal prices. Cattleyas and other orchids were in small supply and meager demand. Outside stock such as cornflower went well, but iris and hemerocallis were slow. Hardy ferns and greens plentiful and in good demand. The great feature of this year's market was undoubtedly the enormous business in pæonies. Being scarce in a way in Philadelphia the demand from points further north can readily be imagined. No doubt there will now be a big glut.

Nothing new in plant market. The only noticeable feature was fine weather and big demand. Take it for all in all probably the best memorial plant trade on record. Smiles all around!

The busiest men in the outside memorial shipping trade as far as our observation went were Reid, Baker, Pennock, Muth, and Niessen. No time to talk to anybody. They were deaf, blind, and dumb to everything in the shape of a correspondent!

JUNE WEDDINGS

VALLEY, SWEET PEAS
STRING ASPARAGUS
And Best of Everything in Flowers

THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

PÆONIES for JUNE WEDDINGS

Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO May 30	ST. LOUIS May 30	PHILA. May 30	BOSTON May 30
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to 32.50	..... to	20.00 to 25.00	20.00 to 25.00
" Extra	25.00 to 30.00	..... to 25.00	12.50 to 15.00	12.00 to 15.00
" No. 1	18.00 to 20.00	15.00 to 20.00	8.00 to	4.00 to 8.00
" Lower grades	4.00 to 6.00	5.00 to 10.00	..... to 6.00	1.00 to 2.00
Bride & Maid — Fan. & Sp.	6.00 to 8.00	..... to 6.00	8.00 to 10.00	5.00 to 8.00
" " Extra	5.00 to 6.00	4.00 to 5.00	..... to 7.00	4.00 to 5.00
" " No. 1 and Lower gr.	2.00 to 5.00	..... to 3.00	5.00 to 6.00	1.00 to 3.00
Liberty, Fancy & Special	10.00 to 12.00	..... to 6.00	15.00 to 20.00	10.00 to 15.00
" extra	8.00 to 10.00	4.00 to 5.00	8.00 to 10.00	8.00 to 10.00
" No. 1	6.00 to 8.00	..... to 3.00	5.00 to 6.00	4.00 to 6.00
Meteor	..... to	..... to	..... to	2.00 to 8.00
Carnot and Kaiserin	4.00 to 10.00	..... to	..... to	4.00 to 8.00
Golden Gate } Best	6.00 to 8.00	..... to 5.00	..... to 10.00	6.00 to 8.00
Ivory } Medium	4.00 to 5.00	3.00 to 4.00	..... to 8.00	3.00 to 4.00
Chatenay } Culls	2.00 to 3.00	..... to	..... to 5.00	1.00 to 2.00
CARNATIONS				
Fancy Class	4.00 to 5.00	..... to 3.00	..... to 3.00	2.00 to 3.00
General Class	1.50 to 4.00	.50 to 2.00	1.50 to 2.50	.75 to 1.50
ORCHIDS				
Cattleyas	40.00 to 60.00	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 12.50	..... to	8.00 to 10.00	3.00 to 6.00
Lily of the Valley	2.00 to 4.00	..... to	3.00 to 4.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	2.00 to 3.00
Daffodils	..... to	..... to	..... to	..... to .....
Callas	8.00 to	..... to	..... to	6.00 to 8.00
MISCELLANEOUS				
Mignonette	2.00 to 5.00	..... to	..... to 2.00	1.00 to 2.00
Sweet Peas	.50 to 1.00	..... to .40	.75 to 1.00	.50 to .75
Adiantum Cuneatum	.75 to 1.00	..... to 1.00	..... to 1.50	..... to 1.00
" Croweanum	..... to	..... to	..... to 1.00	..... to 1.50
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 16.00	12.50 to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	40.00 to 50.00	35.00 to 50.00
" " bunches	25.00 to 75.00	..... to	..... to 50.00	35.00 to 50.00
" Sprengeri "	25.00 to 35.00	25.00 to 75.00	..... to 50.00	25.00 to 35.00
Gardenias	1.50 to 2.00	..... to	..... to 12.50	..... to .....
Peonies	5.00 to 8.00	..... to	..... to	..... to .....

Cut Flowers
BOSTON'S BEST
....All Varieties....
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates
N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON
In writing to advertisers, mention HORTICULTURE

Hardy Cut **Dagger and Fancy FERNS**
$1.50 per 1000
Green and Bronze Galax, $1 per 1000
Best Stock of FLORISTS' SUPPLIES in the country
H.M.Robinson & Co.
8 & 11 PROVINCE ST.
Boston, Mass.
In writing to advertisers, mention HORTICULTURE

--- THE ---
Philadelphia Cut Flower Co.
R. C. HAYDEN, Secy. and Treas. WM. J. MUTH, Manager.
PÆONIES, SWEET PEAS, ROSES
in quantity. Write us for prices
Store Open from 7.30 A M to 8.00 P.M.
1516-1518 Sansom St.
PHILADELPHIA
In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER
WHOLESALE FLORIST 1432 So. Penn. Sq., PHILA.
Sweet Peas, Peonies Carnations
In writing to advertisers, mention HORTICULTURE

E. H. HUNT
Wholesale
Cut Flowers
"THE OLD RELIABLE"
76 Wabash Ave. ....CHICAGO
In writing to advertisers, mention HORTICULTURE

CHAS. W. McKELLAR
51 WABASH AVE. CHICAGO
Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

HEADQUARTERS
—FOR—
Large Flowering Peonies
ALL COLORS
$3.00 TO $6.00 PER 100
50c TO 85c PER DOZ.
We can and will take care of all your wants
Write us your needs now.
E. F. WINTERSON CO.
45-47-49 Wabash, CHICAGO
Catalogue Free
In writing to advertisers, mention HORTICULTURE

EVERYTHING IN
CUT FLOWERS
OUR MOTTO { GOOD { STOCK TREATMENT PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA
In writing to advertisers, mention HORTICULTURE

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th Street, New York

In writing advertisers, mention HORTICULTURE.

GEORGE A. SUTHERLAND CO

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers mention HORTICULTURE

J. A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

In writing to advertisers kindly mention HORTICULTURE

FANCY OR DAGGER FERNS

CROWL FERN CO

FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. **Send us your orders at once** and we will please you. Branch Laurel, 35c. per large bundle. Southern wild Smilax, 50-lb. cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

CROWL FERN CO. - - - MILLINGTON, MASS

PHILADELPHIA NEWS NOTES

Commodore Westcott has fixed the annual opening of the Waretown Rod and Gun Club for June 16th. A large number of the leading lights of Philadelphia, New York, Baltimore, and Washington, will grace the occasion with their presence.

Joseph Meehan and his family of Germantown, have the sincere sympathy of the community in their bereavement. Mrs. Meehan (nee Emily Gaul) passed away rather unexpectedly on May 27th, aged 64. She had gone through an operation for cancer about eight weeks ago and while apparently quite recovered a sudden breakdown occurred with fatal results. Mrs. Meehan was much respected in her neighborhood and was noted for her many exemplary and amiable qualities. A son, Charles E. Meehan, is manager of the Phila. Flower Market.

A. B. Cartledge of the firm of Pennock Bros., is noted as an enthusiastic yachtsman. His boat, the *Emily*, is at present getting tuned up for a trip to Marblehead in July. Being an official of the Tacony Yacht Club he will with other officials and guests be an interested spectator of the power-boat race from College Point to Marblehead, on July 26th. The *Emily* is six feet too long, else she would no doubt be in the contest and give a good account of herself.

Jno. Burton, Deacon Harris and Commodore Westcott made a flying trip to see their old friend Jno. N. May, Summit, N. J., on Thursday. Mr. May, while largely recovered from his recent illness, is still far from spry and those who wish to enjoy a chat with him must, as a rule, make the journey to Summit. It's worth the money! Long may that genial personality be spared to us and may his powers recuperate. Here's to his very good health.

KAISERIN

2½-inch Pots

$3.00 ..... per 100
$25.00 ..... per 1000

VIOLETS

3000 fine Clumps
Lady Campbell

$5.00 ..... per 100
$45.00 ..... per 1000

SAMUEL S. PENNOCK

1612 Ludlow St., PHILADELPHIA

Kindly mention HORTICULTURE when writing.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street - - NEW YORK

In writing to advertisers, mention HORTICULTURE

FRED C. WEBER

FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.

Established 1873
Long Distance Phone Bell Lindell 676

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

Robert J. Dysart

Public Accountant and Auditor
Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

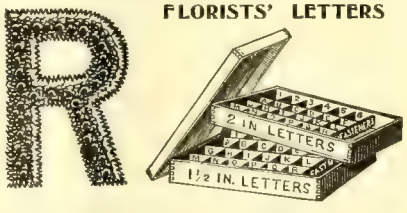
Merchants Bank Building
28 STATE ST. - - - BOSTON
Telephone, Main 58

Consult the Buyers' Directory on Pages 890 and 891 for information as to where to buy the right goods at the right prices.

BOSTON FLORIST LETTER CO.

MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, 3. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

In writing advertisers, mention HORTICULTURE

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

REED & KELLER

122 W. 25th St., New York, N. Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

In writing to advertisers, mention HORTICULTURE

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

LILIES LONGIFLORUM
$6.00 to $8.00 per hundred, buds or blossoms, in pots or out. Extra Fine Quality.
Carefully Packed
BOCK, *THE FLORIST*
2394 Massachusetts Ave. North Cambridge, Mass.
In writing to advertisers, mention HORTICULTURE

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
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Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street - - NEW YORK
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
Telephones 2200 Madison, 2001 Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention ∴ ∴ ∴ ∴ ∴ ∴ ∴ ∴
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, kindly mention HORTICULTURE

Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending May 27 1905	First Half of Week beginning May 29 1905
ROSES		
Am. Beauty, fan. and sp	10.00 to 16.00	10.00 to 16.00
" extra	8.00 to 10.00	8.00 to 10.00
" No. 1	4.00 to 6.00	4.00 to 6.00
" Lower grades	.50 to 2.00	.50 to 2.00
Bride & Maid, fan. and sp	3.00 to 5.00	3.00 to 5.00
" " extra	2.00 to 3.00	2.00 to 3.00
" " No. 1 and Lower gr.	.50 to 2.00	.50 to 2.00
Liberty, fan. and sp.	8.00 to 12.00	8.00 to 12.00
" extra	4.00 to 6.00	4.00 to 6.00
" No. 1	2.00 to 3.00	2.00 to 3.00
Meteor	to	to
Jacq	to	to
Brunner	to	to
Carnot and Kaiserin	to	to
Golden Gate, Ivory, Chatenay — Best	to	to
Golden Gate, Ivory, Chatenay — Medium	to	to
Golden Gate, Ivory, Chatenay — Culls	to	to
CARNATIONS		
Fancy Class	2.00 to 3.00	2.00 to 3.00
General Class	.75 to 2.00	.75 to 2.00
ORCHIDS		
Cattleyas	to	to
Cypripediums	to	to
BULBOUS		
Lilies	3.00 to 5.00	3.00 to 5.00
Lily of the Valley	.50 to 1.50	.50 to 1.50
Stocks	to	to
Daffodils	to	to
Tulips	to	to
Callas	3.00 to 5.00	3.00 to 5.00
MISCELLANEOUS		
Mignonette	.50 to 2.00	.50 to 2.00
Sweet Peas	.25 to .75	.25 to .75
Adiantum Cuneatum	.50 to .75	.50 to .75
" Croweanum	to	to
" Farleyense	to	to
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings	20.00 to 40.00	20.00 to 40.00
" " bunches	15.00 to 25.00	15.00 to 25.00
" Sprengeri "	12.00 to 20.00	12.00 to 20.00
Gardenias	to	to
Lilacs, bunches	to	to

WEILAND - AND - RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
WHOLESALE FLORISTS
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE.

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WHOLESALE FLORISTS!
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	CINCINNATI May 16	BALTIMORE May 10	BUFFALO May 30	PITTSBURG May 30
ROSES				
Am. Beauty, fan. and sp.	..... to 25.00	25.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	..... to	15.00 to 20.00	15.00 to .....
" No. 1	8.00 to 10.00	..... to	10.00 to 15.00	10.00 to .....
" Lower grades	5.00 to 6.00	..... to	4.00 to 10.00	2.00 to 4.00
Bride & 'Maid, fan and sp.	..... to 6.00	..... to 7.00	6.00 to 8.00	..... to 8.00
" " extra	4.00 to 5.00	..... to 6.00	4.00 to 6.00	..... to 6.00
" " No. 1 and Lower gr.	1.50 to 3.00	..... to 5.00	2.00 to 4.00	2.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	8.00 to 10.00	..... to 15.00
" extra	..... to 4.00	..... to	6.00 to 8.00	..... to 12.00
" No. 1	2.00 to 3.00	..... to	4.00 to 6.00	..... to 8.00
Meteor	..... to	..... to	3.00 to 8.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Carnot and Kaiserin	..... to	..... to	4.00 to 8.00	4.00 to 12.00
Golden Gate } Best	..... to 6.00	..... to 8.00	4.00 to 6.00	..... to 10.00
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Chatenay } Culls	2.00 to 3.00	..... to 5.00	2.00 to 3.00	..... to 4.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to 2.50	3.00 to 4.00	..... to 3.00
General Class	.75 to 2.00	..... to 1.50	1.00 to 3.00	1.00 to 2.00
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	4.00 to 10.00	..... to	..... to	8.00 to 12.00
Lily of the Valley	..... to 3.00	..... to	.50 to 4.00	..... to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	..... to	..... to .....
Tulips	..... to	..... to	..... to	..... to .....
Callas	..... to 8.00	..... to	6.00 to 10.00	..... to 8.00
MISCELLANEOUS				
Mignonette	..... to	..... to	..... to	1.00 to 2.00
Sweet Peas	.50 to .75	.60 to .75	.40 to .75	.30 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	10.00 to 12.00	..... to .....
Smilax	..... to 12.50	20.00 to 25.00	..... to 15.00	10.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to 50.00	..... to 50.00	35.00 to 50.00
" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	25.00 to 40.00
" Sprengeri "	..... to 35.00	25.00 to	25.00 to 50.00	25.00 to 50.00
Gardenias	..... to	..... to	1.50 to 3.00	..... to .....
Lilac, bunches	..... to	..... to	..... to	..... to .....
Pæonies	..... to	..... to	..... to	4.00 to 8.00

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

The *New Haven Chronicle* published a fine portrait and sketch of the career of Frank S. Platt as a man prominent in the professional, political, and social life of the city.

Rose, Wayne Co., N. Y. — The onion crop has been almost wholly abandoned in Rose this year because of the failure of the crop in recent years, due to the wet seasons. On the onion muck this year other crops, such as potatoes, celery, cabbages and mint, will be raised. The onion crop is said to be profitable, when the yield is fair, even at 25 cents per bushel. — *Produce News.*

Fitzgerald, Georgia. — The dreaded potato beetle, so destrucive in northern States, threatens to nearly ruin the crop here this year. Young potatoes are now being gathered, and the ravages of the pest are so great and the insects so numersus that the task is not a pleasant one. It is supposed that the larvæ of the bugs have been brought here in potatoes shipped from the North, as the beetle was practically unknown in this section until after heavy importations of potatoes from Northern States. — *Press Despatch.*

The above from the *Country Gentleman.* We think our friend Hammond of Fishkill, N. Y., has something that will make quick work of those beetles. Georgia needn't suffer.

CATALOGUES RECEIVED

Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y. Descriptive circular.

Hinode Florist Company, Whitestone, N. Y. Catalogue of Japanese garden specialties. Handsomely illustrated.

H. F. Michell Co., Philadelphia, a timely pamphlet of lawn and garden seeds, spraying and mowing implements, etc., for May.

Franz De Laet, Contich, Belgium. Price list of cacti and other succulents. A very comprehensive catalogue of these odd plants, freely illustrated.

Charles W. Percy, Boston, Mass. Shipman Automatic Steam Engines. Illustrated with interesting diagrams of boilers and engines for use with kerosene fuel, for greenhouse and outdoor spraying, etc.

Wadley & Smythe of New York and Newport, issue a set of views in gardens in Newport, Westbury, and elsewhere showing artistic plantings done by them, formal gardens, and describing their methods of moving large trees and their use for immediate effect. It makes a very handsome book.

Ellwanger & Barry, Rochester, N. Y. General catalogue, also list of novelties and specialties for 1905. A complete list, and descriptions of fruit and ornamental trees and hardy herbaceous plants. Among the novelties listed are Lemoine's new hybrid deutzias and philadelphuses, lilacs, Chinese pæonies, phloxes, and hardy roses of various classes.

W. Baylor Hartland & Sons, Cork, Ireland, "Temple Show" Tulips and rare Daffodils. The bulb-grounds at Ard-Cairn are well known by reputation to many of us who have not yet had the pleasure of setting foot on trans-Atlantic shores and this catalogue is in itself enough to tempt one to pack up as soon as daffodil-time comes and see for one's self what is so well described therein.

LILIUM ROSEUM VAR. MULTIFLORUM

Max Leichtlin in *The Garden*, London

This lily is a native of the lower ranges of the Indian Northwest Himalayas, and is seldom seen in European collections. It is not perfectly hardy, as growth begins early, and the leaves are likely to be damaged if it gets no protection or a sufficient covering of snow. It will do well in the south of England or grown in a frame or pot. It is a stately plant well worth some care, especially



LILIUM ROSEUM VAR. MULTIFLORUM

the variety which I had the good fortune to raise. This produces as many as fifteen flower-stalks from one bulb, and the main stems rise to a height of three feet, showing as many as forty flowers of a pleasing pale purplish rose. It is of easy cultivation, prefers a rich soil, and after dying down the bulb should be taken up and kept dry as long as no new roots are visible; then replant it, but not too deep.

LOS ANGELES HORTICULTURISTS MAY ORGANIZE

The several arrivals in San Francisco during the week ending May 27, of J. C. Vaughan and P. H. Plath, president and State vice-president, respectively, of the S. A. F., and Frank Pelicano, Pete Ferrari, and O. H. Sanborn, prominent members of the Pacific Coast Horticultural Society, all hailing from Los Angeles, made so much of an impression in San Francisco that something had been doing in Southern California's principle city, an investigation was made, resulting in securing the following report:

To discuss the project of forming a Southern California horticultural society, there was a rally a few days ago in Los Angeles of florists and plantsmen of that section of the State. Mr. Vaughan, by virtue of his holding a midwinter and midsummer habitation in south California, had joined with the Los Angeles residents in the trade in calling the rally. The other four gentlemen named, San Francisco and Oakland residents, had responded to the rally call as representatives of their fellow craftsmen in the central and northern sections of the State where there is horticultural organization life in which they hold membership, to tell at the rally the trade benefits there are in such organization comradeship.

An adjourned meeting of this rally, which numbered only six less than one hundred florists, plantsmen, and flower growers, is expected to be called next week, when it is thought a permanent organization will be effected.

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Fine plants

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Plumosus Nanus	$10.00 per 1000
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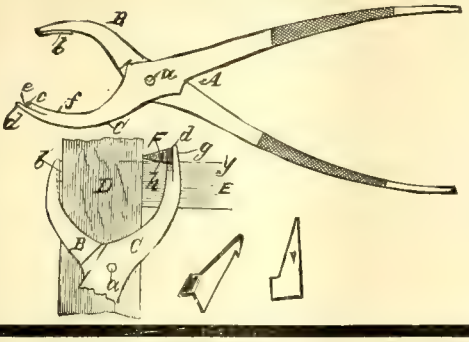
COLEUS SALICIFOLIUS AND MONSTROSUS NANUS

By M. Herb, in Möllers *D. Garten Zeitung*

An even, low, compact growth and long, narrow, and gracefully drooping leaves are the significant features of this new, willow-like leaved coleus, and make it a distinct variety among all the coleus hybrids that come true from seed. The leaves of this coleus are cut irregularly, have a wavy surface, and their colors are so distinct, lovely, and manifold, that this plant can successfully compete with many flowering plants in color effect.

The second plant mentioned in the heading is the extreme opposite of the other, being furnished with very broad, half-globe-like leaves curled back on all sides. It acquires thereby that compact bushy shape, which is so desirable in a pot plant. Its colors are also very good. This variety was introduced in 1895, but only now has it begun to come true from seed.

Platt & Giger were among the sufferers by a fire in the building in which their store is located, at the corner of State and Main streets, New London, Conn., on May 24.



A GLAZING POINT WITH A RECORD

Roofs glazed eighteen years ago are still intact.

Don't glaze until you write for samples and particulars.

300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER

HYDE PARK, MASS.

MACHINE FOR CLEANING BOILERS

United States Consul Marshal Halstead
Birmingham, Eng.

Mr. J. Morrison, of Glasgow, describes in the Engineering Supplement of the London Times, of March 15, 1905, a machine for keeping the smoke tubes of marine and stationary boilers clear of soot by turning the retarders or spirals ordinarily inserted into tubes to break up the gases on their way through. Instead of the customary sweeping out of the tubes, say, at the end of a trip of a steamer, or weekly in stationary engines, and being satisfied with this occasional cleaning, though it is known that within twelve hours the tubes will be as dirty as before, the operator works the mechanism referred to by a handle outside the smoke box a half minute every watch. Rotating the retarders disturbs the soot and the draft smoke (the smoke-box doors being always shut), blows the soot toward the funnel, thus clearing the tubes. As five-sixths of the heating surface of a marine boiler is tube surface, clean tubes naturally give great economy in coal consumption. The device has been used for some months on the steamship *Pirate*, and is now being fitted into a number of Glasgow steamers. Mr. Morrison believes it to be the only mechanism that will work within the smoke-box of a steamer or locomotive where the temperature (melting zinc, or 750° F.) prevents lubrication and where soot and dust gather.

BUSINESS CHANGES

N. F. Higgins has purchased the store of C. F. Fairfield, at Springfield, Mass.

Louis J. Reuter has relinquished his position as manager of the Port Allegany Greenhouses and removed to 60th street and Gibson avenue, Philadelphia, where he has leased a greenhouse establishment.

The Garden, London, for May 13th contains a fine colored plate of Phaius tuberculosus as a supplement. The interesting information is given that this terrestrial species introduced in 1900 as Phaius Warpuri was a rediscovery of the old tuberculosus of Blume and that the epiphytal species known for the past twenty years as P. tuberculosus had been a case of misnaming. The latter is now known as P. simulans on account of its remarkable resemblance, especially in the color of the flower, to the original.

TIMBER RESOURCES OF LIBERIA

From United States Consul-General Lyon,
Monrovia, Liberia.

Liberia's forestry resources offer an inviting field for a lucrative business in hard woods. The virgin forests consist of woods of great commercial value, and there are ample water facilities for sawmills. There are two varieties of mahogany — red and gray; four varieties of oak — red, streaked, white, and whistmore; cedar, rosewood, mangrove, burrwood, white and black gum, mulberry, brimstone wood, red peach, pepper wood, white mangrove, persimmon, iron wood, greasy peach, poplar, cherry, hickory, saffron, ebony, and many other woods common to the tropics. Some of these possess singular qualities. The greasy peach lasts indefinitely, and is proof against insect attacks. The heart of the mulberry is incased in a very thick sap, which succumbs readily to decay, but the heart itself, which is capable of the highest polish, is tough, and its durability is indefinite. The qualities of ebony and mahogany are well known. The African cedar is similar to the American pine, very light in color, takes a beautiful polish, and is used for ceilings. The brimstone wood and the hickory, when seasoned, are so stubborn in their qualities as to defy penetration.

GREENHOUSES BUILDING OR PROJECTED

MAYWOOD, ILL. — Mr. Collatz, two houses each 15×200.

MAGNOLIA, N. J. — Stephen Green, one house.

AQUEDUCT, N. Y. — G. F. Neipp, house, 200 ft. long.

MONTREAL, P. Q. — Hall & Robinson, two houses.

FRANKLIN, PA. — McElhinney Bros., house 25×135.

BOUND BROOK, N. J. — A. C. Zvolanek, two houses.

WINCHENDON, MASS. — M. E. Convers, conservatory.

LIST OF PATENTS

Issued May 23, 1905

790,400. Banana Shipping Crate. Frank Schmitz, Chicago, Ill.

790,552. Ladder. William G. Bertram, New York, N. Y.

790,760. Hoe or Weeder. Charles W. Stuart, Newark, N. Y.

790,834. Fruit Cleaner. George W. Harvey, Monrovia, Cal., assignor of one-half to Norman Williams, Los Angeles, Cal.

790,837. Fruit-Picker's Bag. Frank L. Hepner, Covina, Cal., assignor to Joseph Wilson, Duarte, Cal.

790,851. Fruit Produce and Refrigerator Car. Ernest M. Phillips, Castile, N. Y.

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Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

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50 Horizontal Tubular Boilers from 10 to 200 H. P.

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Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

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The Best Ever Spray Co., Chester, N. Y

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Johnson & Stokes, 217-219 Market St., Philadelphia.
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all season through.

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Chicago Carnation Co., Joliet, Ill.
Plants for Fall delivery
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Robert C. Pye, Nyack, N. Y.
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COLD STORAGE VALLEY PIPS.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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G. A. Sutherland Co., 34 Hawley St., Boston.
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Reed & Keller, 122 W. 25th St., New York.
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Chicago House Wrecking Co., Chicago, Ill.
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Herendeen Mfg. Co., Geneva, N. Y.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.
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HUCKLEBERRY TREE BOUGHS.
Caldwell the Woodsman, Evergreen, Ala.

IMPORTING HOUSES.
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Plants tender or hardy.
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Pure Culture Spawn.
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Importers, Exporters, Growers, Hybridists.
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Wm. Sim, Cliftondale, Mass.

PUTTY.
Hammond Paint & Slug Shot Wks. Co., Fishkill-on-Hudson, N. Y.
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J. Breitmeyer's Sons, Gratiot & Miami Aves., Detroit Mich. For page see List of Advertisers.

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ROSES.
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Hardy Roses.

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Hardy Roses, H. T. Roses and Ramblers.
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Waban Rose Conservatories, Natick, Mass
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W. Atlee Burpee & Co., Philadelphia
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Cineraria and Primulas.

H. F. Michell Co., 1018 Market St., Philadelphia.
Cineraria and Primulas.
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Conrad Appel, Darmstadt, Germany. Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Wm. Ghormley, 57 W. 28th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York.
Moltz, 55–57 W. 26th St., New York.
Moore, Hentz & Nash, 55 West 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
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Phila. Cut FlowerCo., 1516–18 Sansom St., Phila., Pa.
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.
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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

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BEGONIA GLOIRE DE LORRAINE, NEPHROLEPIS PIERSONII, PANDANUS VEITCHII
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CHRYSANTHEMUM CUTTINGS
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José Sagarminaga, Obispo 66, Habana, Cuba.
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YOUNG ROSES
Poehlmann Bros. Co., Morton Grove, Ill.
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Greenhouse Glass

In a few weeks the American Factories go out of blast. Good Glass will soon be scarce and much Higher. We have a limited quantity on hand at present prices

STANDARD PLATE GLASS CO., BOSTON, MASS.

26-30 Sudbury St. ❦ On the Corner ❦ 61-63 Portland St.

In writing to advertisers, kindly mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"Pecky Cypress"**

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

In writing to advertisers kindly mention HORTICULTURE

GLASS Buy Now and Save Money

We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers kindly mention HORTICULTURE

CYPRESS

SASH BARS 32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

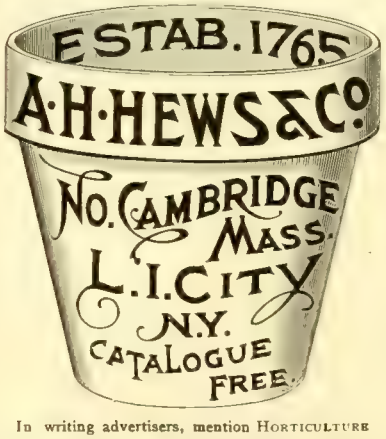
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The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

H. H. SYLVESTER

Mason and Builder

818 Tremont Building

Boston, Mass.

Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

ILLUSTRATIONS BY THE Hub Engraving Co.

173 SUMMER ST., BOSTON

ILLUSTRATORS AND DESIGNERS

In writing to advertisers, kindly mention HORTICULTURE

"One Spraying Enough"

"DISPARENE"

THE ONE INSECTICIDE that destroys all leaf-eating insects without fail; that adheres to the leaves for months undisturbed even by heavy rains, and NEVER INJURES THE MOST DELICATE FOLIAGE. Put up in sizes for 50cts., $1.00 and $4.25. Booklet free.

Also INSECT EMULSION For Green and Black Fly and Mealy Bug

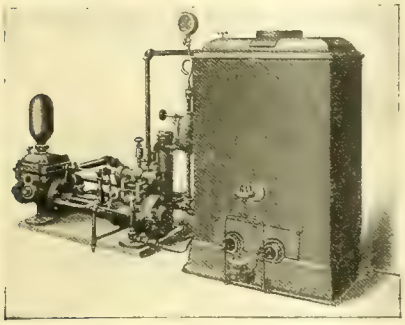
"Add Water, and Spray"

BOWKER INSECTICIDE CO.

BOSTON NEW YORK CINCINNATI

In writing to advertisers, kindly mention HORTICULTURE

THE SHIPMAN OIL-BURNING AUTOMATIC STEAM PUMPING OUTFIT



Will do any pumping, under any conditions, portable or stationary. Requires no attention, automatic in fuel consumption, in water feed and in steam delivery. Exhaust steam can be used to temper manure water. Insurance not affected by its use.

CAN YOU AFFORD TO RUN YOUR GREENHOUSES WITHOUT IT?

For illustrated catalogue and further information, write to

Chas. W. Percy

M'f'r Shipman Automatic Engines

212 Summer St., Boston, Mass.

PUMPS Rider-Ericsson. Second-hand, from $40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand. 2 second-hand steam, first-class condition; will heat 1000 sq. ft. glass, at $35.00 each.

PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¾ cts.; 1¼-in., 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.

STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in. ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in., 1½-in., 2-in. pipe, $4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts ⅛-in. 1-in. pipe, $1.00. No 2 cuts 1-in 2 in pipe, $1.30.

STILLSON WRENCHES New. 18-in., grips ¼-in.–2-in. pipe, $1.65; 24-in., grips ¼-in-2½-in. pipe, $2.40; 36-in., grips ½-in.–3½-in. pipe, $4.75.

PIPE VISES New. No. 1 Hinged, grips ⅛-in.–2-in. pipe, $2.25.

GARDEN HOSE New. ¾-in., guaranteed 100-lbs. pressure, 7½ cts. per ft.; ¾-in. not guaranteed, 4¾ cts. per ft.

HOTBED SASH New. Cypress, 3-ft.x6 ft., from 70 cts. up; glazed, complete, from $1.60 up. Second-hand, as good as new, at $1.25 each.

GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75. Second-hand 10x12 at $1.40 per box

10x12 / 12x12 } B. Double at $2.40.

12x14 — 12x16 — 12x20 / 14x14 — 14x16 — 14x20 / 16x16 — 16x18. } B. Double at $2.60.

16x20 / 16x24 } B. Double at $2.85

Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N.Y.

Automatic Greenhouse VENTILATORS

From $25.00 up. Send for circular

The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

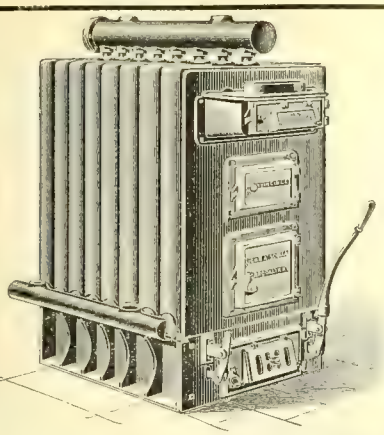
INSURE YOUR GLASS

in the FLORISTS' HAIL ASSOCIATION OF AMERICA.

DO IT NOW

'tis too late when you are hit. For particulars address

JOHN G. ESLER, Saddle River, N. J.



Scollay Invincible **Boilers**

—FOR—

Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

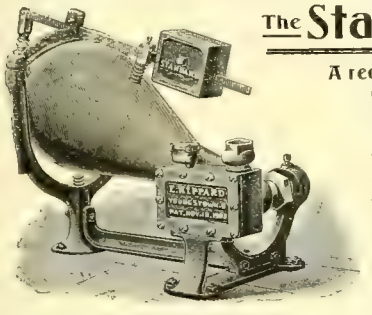
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices



The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio



MASTICA

FOR Greenhouse Glazing

USE IT NOW.

Joseph Breck & Sons CORPORATION

AGENTS

We are the Manufacturers Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS

CORPORATION

47-54 North Market Street

Boston Mass.

In writing to advertisers, mention HORTICULTURE

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

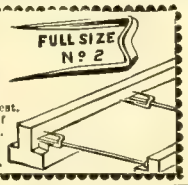
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

Holds Glass Firmly

See the Point

PEERLESS

FULL SIZE No 2



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

SEND FOR

New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

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CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Attr'y's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

illustrated monthly—Eleventh year—terms, $1. a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

Twemlow's Old English Liquid Putty

STOPS ALL CRACKS and CREVICES in the Sash or Roof of the Greenhouse. Sold by Supply Houses in Chicago, Milwaukee, Detroit, Cincinnati, Indianapolis, Cleveland, Allegheny, Philadelphia, New York, Buffalo, Boston, Baltimore, Etc.

"Greenhouse White Paint" Made by HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

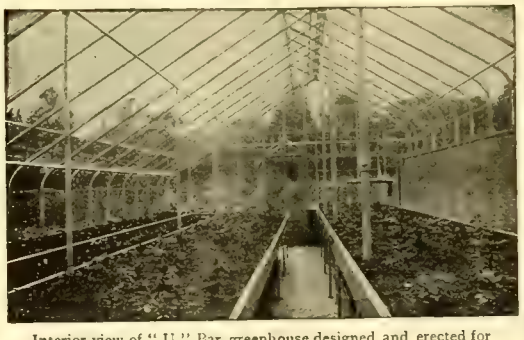
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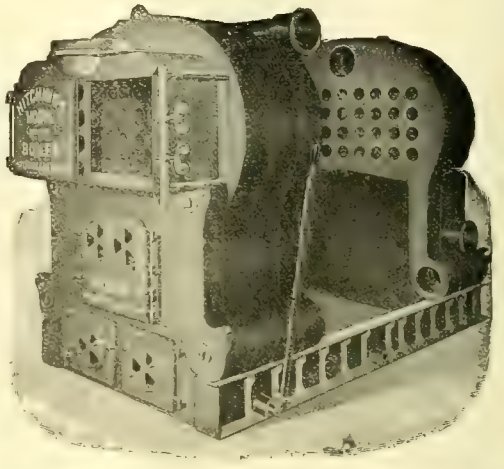


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HORTICULTURE

Vol. I JUNE 10, 1905 No. 28



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HORTICULTURE

VOL. I | JUNE 10, 1905 | NO. 23

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, EDITOR AND MANAGER

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Water Lilies





The nymphæas are an indispensable feature of the water garden. For best results they require a rich loamy bottom and the hardy sorts will survive the winter all right provided the water is deep enough so that the roots will never be frozen. Our common white water lily — Nymphæa odorata — is a typical example. While it is considered hardy it will always be found in ponds or rivers which do not freeze solid. Other hardy lilies most desirable are Nymphæa odorata rosea (pink) and other odorata varieties of different colors, N. alba (white), N. blanda (white), N. reniformis (yellow), and the Marliacæa hybrids.

During the winter the tender kinds must be protected and this is done most easily by growing in tubs or boxes submerged in the pond, which can be taken out on the approach of cold weather and the plants set in moist sand and kept there during the winter at a temperature of 55°, with protection from mice. The tender sorts contain all shades of blues, crimsons, and yellows, some flowering in the day-time and others at night.

Most hardy kinds are propagated from seed. This is sown when ripe, in February or March, in pans filled with good potting soil, and covered with a layer of sand. The pans are then submerged to a depth of two inches in water kept at a temperature of 80°. When the seedlings have two or three true leaves they are pricked off into pots and pushed along. While the tender sorts are often raised from seed the general practice is to plant the bulbs formed on the stored roots directly into submerged receptacles. The hardy nymphæas can be set in their permanent quarters any time after the ice is out of the pond, but must be gradually hardened off beforehand. Tender sorts are not set out until settled warm weather, the last of May in northern climates.

Many a stretch of bare water could be turned into a delightful nook by the judicious planting of lilies, reeds, cat-tails, bamboos, eulalias, papyrus, and grasses backed with willows, alders, laurels, andromedas, and other water-loving plants for a back-ground and wind-break.

In restricted grounds and for winter-forcing, tubs or barrels will furnish quarters for growing the water lilies. For this purpose the less vigorous growers should be selected, as the Laydekeri hybrids, Nymphæa odorata minor, and N. pygmæa, with its variety Helvola, for hardy sorts. N. elegans, and N. zanzibarensis with its varieties azurea and rosea are the best day-bloomers of tender nymphæas. For a night-bloomer we have N. delicatessima. The amount of soil for these will vary with the variety from three to five cubic feet. This should be a good compost of one-half sod and one-half cow manure. When winter comes tubs containing hardy sorts can be put in a cellar or plunged and covered with litter sufficiently deep to prevent solid freezing, while those filled with tender kinds can be emptied and the plants cared for as previously mentioned. As this is an artificial method the plants must be kept well fed and the water free from algæ.

For park purposes the Victoria regia, with leaves seven feet across, or its improved form Trickerii, is not to be surpassed; but in northern localities it is not hardy and unless the pond can be heated it will not prove a success. Where it is wanted the seed is best sown in November or December, and the plants kept growing steadily in water at 80° or 85°, repotting as they grow. In this way suitable plants can be obtained in one season. As it requires an extensive area, and a high temperature, it is not adapted to the conditions of the average growers.

R. I. Adams.

British Horticulture

VARIATION OF SEX

An interesting study for horticulturists is the influence of climate upon sex development in plants. In a paper, written by Mr. R. Lewis Castle, and published by the Royal Horticultural Society, the fact is convincingly shown in the case of varieties of strawberries introduced into or raised in America. Some of these, Mr. Castle states, have become staminate (male) only, and other pistillate (female) only. In all the American tests it is usual to state in the description which strawberries are staminate and which pistillate, and when the latter are planted in beds, a line of a variety which produces pollen freely is planted with the other to insure fertilization, about one line in ten being sufficient for the purpose. A typical American variety which will illustrate this is Crescent Seedling. It is distinctly pistillate in the United States, whereas in this country it produces perfect flowers, and sets its fruit most readily, cropping heavily in favorable seasons. A well-known British variety, Stirling Castle, which is also pistillate in America, and does not set its fruit without the aid of pollen from another variety, is in this country quite self-fertile, and bears constant crops, being one of the varieties specially favored by some large fruit preservers for jam making. Mr. Castle is of opinion that above the freezing point the staminate portion of the flower is more readily affected by changes of temperature than the pistil.

A "BOOM" THAT FAILED

At the commencement of the year the arrival of four apples, stated to be seedless, from Mr. Spencer's nursery in Colorado, was energetically advertised in the papers. The half-penny dailies, always alert for the latest sensation, made the most of the novelties. One of the specimens was sent to King Edward, who sent a message through his private secretary, to the effect that he was "much interested in seeing the apples." A second was forwarded to the editor of a monthly magazine, which has participated in the "boom." Two were sold by auction in Covent Garden in aid of the unemployed in East London. Messrs. W. B. Shearn, florists and fruiterers of London, purchased the pair for £3 (pounds), and for several weeks they were placed on view in a glass case in the shop window. Recently in the presence of a party of journalists, Mr. Shearn cut open the apples, which were found to contain not only pips but cores of a harder substance than those of a Tasmanian apple, cut by way of contrast. Mr. Shearn has since been advertising for sale seeds from these so-called seedless apples! The English introducer of the new comers now asserts that the dissected apples are not the same as those which were received from Mr. Spencer, but his statement is denied by Messrs. Garcia, Jacob & Co., the auctioneers, and by the purchaser. The revelations have completely exploded the "boom," which has been so zealously worked in the interests of the Spencerian fruit for some months past, although the horticultural papers have been very cautious in accepting the highl colored statements put forward.

FRUIT GROWERS COMBINING

The United States are far ahead of this country in the combination of florists and fruit growers. During the last two or three years an effort has been made to remedy this defect. The fruit and vegetable merchants have now a federation, representing all parts of the United Kingdom. A National Fruit Growers' Federation has also been formed, the annual meeting of which has just been held. The membership is not as large as it should be, and arrangements are now to be made to extend the list. Three members of the Council have taken part in an inquiry conducted by the Board of Agriculture as to the position of the fruit-growing industry. The report is about to be issued, and this will contain some important recommendations. One of these is a proposal to form an experimental farm, under the Board of Agriculture, at which various trials can be made, and researches conducted as to the best methods of suppressing diseases and insect pests. One outcome of the committee's deliberations will undoubtedly be the extending of the work performed by the Board of Agriculture so as to embrace more effectually the fruit-growing interests. An important conference is to be held in the autumn, under the combined auspices of the Royal Horticultural Society and the Federation, at which the subjects of foreign competition, grading and packing, land tenure and rating difficulties, railway grievances, and insect pests will be discussed. With this comprehensive list there should be a useful and profitable interchange of views.

NURSERYMEN AS INVENTORS

Amidst the brilliant display of flowers at the Royal Horticultural Society's show this week there were some exhibits which although not so ornamental, were of very interesting character. Mr. H. Becker, a well-known Jersey nurseryman and fruit grower, has invented a new system of glass roofs for greenhouses, which does away with the old-fashioned system of glazing. The use of putty is dispensed with in the glazing of roofs and frames. The supporting bars are of the ordinary shape, but without the usual rabbeting, the bars being grooved along the center, so as to carry off any water. No bedding material is needed for the glass, which overlaps in the ordinary manner, and is finally held in position by means of thin galvanized iron caps of the shape of an inverted trough, having a level flange on each side. The flanges are striped with a coat of thick oil-paint before being applied to the edges of the pane of glass, thereby creating a water-tight joint. Any pane can be quickly removed without disturbing the next by unscrewing the screws holding its separate piece of metal capping, which covers the wood from all outside influences. No skilled labor is required for the glazing, and for tomato growers particularly it affords a means of exposing without expense a "sick" border to the influence of the open air. Messrs. R. D. Whitmee & Sons, Birchwood Park Nurseries, Swanley, showed a wire arrangement for supporting carnations and other flowers, which has been found very useful in facilitating the cutting of large quantities of bloom

W. H. Adsett.

London, England, May 13, '05.

A Beautiful Montreal Estate



A CORNER OF THE GARDEN



IN THE CONSERVATORY

The conservatories and garden of Alfred Joyce, Outremont, Montreal, at all seasons are full of interest to plant and nature lovers. The situation is an ideal one, securing the setting and outlook with that privacy so desired by the busy city man. The greenhouses adjoining the residence are fine, light, well-ventilated spans of Lord & Burnham's construction. Melons planted out are a sturdy, promising lot of plants; Montreal Nutmeg, Countess, Beechwood and Hero of Lockinge, are a few of the varieties grown. The cool houses are full of healthy stock. One hundred and fifty varieties of zonal geraniums are kept, also chrysanthemums, tuberous begonias, gloxinias, cyclamens, Lorraine begonias, Nicotiana Sanderæ, Primula floribunda, and numerous other bright flowering subjects. Kalanchoe flammea with its bright scarlet heads of flowers, flowers freely if kept well up to the light and on the dry side. Martynia fragrans, a pretty gesneria-like plant is seen in various shades of color. Schizanthus Wisetoniensis is just past its best but has been magnificent. The new types produce a wealth of color which makes it one of the best of spring decorative plants.

Among other things worthy of note are the seedling amaryllises, anthuriums, Primula stellata (new type), fancy pelargoniums, Bignonia grandiflora and Streptosolon Jamesonii. Numbers of herbaceous perennials are potted up early and make a fine spring display. Specimen crabs, maples, and weeping silver birch stud the well-kept lawns. There are fine mixed borders in which are shrubs such as prunuses, spiræas, etc., with Lilium candidum and irises planted between and edged with double pink daisies.

On higher ground and in the center of garden is a piece of wild garden and rockery. In the rear of this on rising ground are three fine beds of herbaceous plants and flowering shrubs, set amid velvety lawns with here and there specimen abies and silver birch. Tree pæonies are mixed freely among flowering shurbs. This is perhaps the best, most up-to-date garden in the vicinity of Montreal. In the care of C. Craig, it shows excellent cultural merit. His efforts are well supported by Mr. Joyce, who not only takes an active interest in the work but gladly welcomes visitors to share with him his many treasures. This privilege is largely taken advantage of and is much appreciated by the flower-loving public; this spirit of generosity is twice blessed; both he that gives and they that take.

Edgar Elvin

Vandas in Chicago

[See Frontispiece]

The photograph herewith reproduced is from E. G. Uihlein of Chicago, who is the fortunate possessor of many interesting and rare orchids, some of them quite unique. The happy condition of the plants speaks volumes for the successful culture under such detrimental conditions prevalent during the winter in practically the heart of this city.

It is evident that the surroundings suit the culture of vandas, of which there are very fine examples of Vanda Sanderiana, V. Lowii, V. Denisoneana, V. Roxburghii, V. Kimballiana, V. cœrulea, V. gigantea, V. Cathcarti, V. cœrulescens, V. lamellata, V. Parishi var. Marriattiana, V. teres, V. Hookeriana; together with several specimens of V. suavis and V. tricolor in variety.

Four plants were selected for photographing. No. 1. On the extreme right is a plant of the true V. tricolor planilabris, one of the finest forms of tricolor, with blossoms of large size, rich in color which is yellow and deep bronze, the labellum being a rich rose and striped with bronzy purple. The spike has seven flowers. No. 2. Vanda tricolor, one spike,

six flowers; very rich in color. No. 3. Vanda tricolor, three spikes with twenty-four flowers. No. 4. Top plant, V. suavis. This plant has been in the collection several years; has four spikes, forty-seven flowers; pure white petals with magenta spots, labellum deep magenta-purple.

This genus has many interesting features, which should make them more extensively cultivated, even when out of flower; their long stems clothed with deep arching foliage feathered from the base to the summit are much admired. The late Erastus Corning of Albany, had a complete collection of these plants, also the late W. S. Kimball of Rochester, L. Merand of Albany, N. Y., and F. L. Ames of Boston. There is a fine collection of them at Greystone, N. Y., in the Untermyer collection, also in Mrs. G. B. Wilson's collection at Philadelphia.

A. Dimmock

Hardy Rhododendrons

The season of rhododendrons is on, and once more the note book is taken in hand and with it the task, so often essayed but never completed, of compiling a list of reliably hardy varieties. Appreciating the deep interest which all garden lovers take in this subject, we have asked several gentlemen, recognized as the best-informed authorities, to favor our readers with a list of about twenty sorts that have withstood the varying conditions of successive winters sufficiently to demonstrate their hardiness.

Professor C. S. Sargent, of the Arnold Arboretum writes as follows:

"The severe winter of 1903-1904 and the long and excessive drought of the autumn of 1904, followed by another severe winter, have proved disastrous to rhododendrons in eastern Massachusetts, and many plants that have been growing in the neighborhood of Boston for twenty-five or thirty years without protection and without injury have died since the first of January. A recent examination of the important collections of these plants in the neighborhood of Boston, shows that the following Catawbiense hybrids are generally in good condition and may therefore be considered able to resist nearly any of the weather conditions they are likely to have to endure here:

Album elegans, Album grandiflorum, Alexander Dancer, Caractacus, C. S. Sargent, Delicatissimum, Everestianum, H. W. Sargent, Henrietta Sargent, Kettledrum, King of the Purples, Lady Armstrong, Mrs. Millner, Mrs. C. S. Sargent, Purpureum elegans, and Roseum elegans."

Parsons & Sons Co., of Flushing, N. Y., sends the following list of varieties that have proved perfectly hardy in their nursery:

Daisy Rand, The Boss, General Grant, J. R. Trumpy, H. W. Sargent, Bicolor, Purpureum crispum, Atrosanguinea, Kissena, Mabel Parsons, Kettledrum, Abraham Lincoln, Grandiflorum, Chas. Dickens, Flushing, Everastianum, Henry Probasco, Dr. Torrey, Mrs. Millner, Chas. Bagley.

From T. D. Hatfield, gardener to Mr. Walter Hunnewell, Wellesley, Mass., comes the following interesting account of the experience of the past winter:

"Mr. Hunnewell has handed your query on rhododendrons to me to answer. Winter before last was severe, and we thought that it was about as good a test of hardiness as we should be likely to get for many years, but last winter was worse. In fact, we can hardly say that any rhododendrons are hardy, or to be exact, thoroughly hardy. All have been injured; even the invincible Everestianum has been badly cut up, and parts of some plants killed, above the snow line; quite a number of the half-hardy ones such as Lady Mosely, and Duchess of Connaught, have been killed outright. Maximum Wellesianum, which latter should by its breeding be hardy, has been severely injured; some plants, or parts of plants, are entirely dead, above the snow line.

Now another interesting question comes in with this past winter's season experience, and that is the effect of sun — direct sunlight. We had good reason, up to now, to believe that rhododendrons were most injured from what we called "burning," and this was worst in the most sheltered places. This fact, or these conditions remain; but some plants near the pond in the most exposed positions on the whole place, with the least care — not being in the rhododendron garden proper — have come through with practically no injury either this winter or last, and these are quite exposed to sunlight. But the bad effects of sunlight in this case, it seems to me, are nullified by the continual circulation of very cold air all the time. Again in another place, which seems to me ideal for rhododendrons, hardly any injury, or much less, was experienced. This is in a belt sheltered by hemlocks and pines from the mid-day sun.

We moved about one-fourth of our rhododendrons last September, many very large plants. Now we expected to lose some of these, but they have come out fully as well, and some varieties better than those of the same kind not moved.

If we should give you the names of twenty-five varieties as quite hardy, we would name the following, still we would much prefer to wait until after this season's blooming.

Twelve hardy. Mrs. C. S. Sargent, Album elegans, Alexander Dancer, Caractacus, Charles Dickens, Delicatissimum, H. W. Sargent, Lady Armstrong, Lady Clermont, Lady Frances Crossley, Mrs. Millner, Purpureum elegans, Roseum.

Twelve less hardy. Purpureum grandiflorum, Old Port, Mrs. Harry Ingersoll, Kettledrum, Album grandiflorum, F. L. Olmsted, George Paul, Guido, Henrietta Sargent, Lady Grey Egerton, Princess Victoria, Lee's Purple."

Kenneth Finlayson writes as follows:

On behalf of J. A. Petigrew, Superintendent of Parks, and in conformity to your request, I subjoin a list of twelve rhododendrons that stood last winter in the Boston park department with little or no injury.

Album elegans, Album grandiflorum, Delicatissimum, Everastianum, Hannibal, Charles Dickens, Mrs. Millner, Mrs. C. S. Sargent, Charles Bagley, Lady Armstrong, Caractacus, Henrietta Sargent.

South American Horticulture

RIO DE JANEIRO — II

Palm avenues, with intervening spaces of parks connect the suburbs, terminating in the valley, where Brazil's grand botanical garden — jardin botanico — is situated. It contains the most beautiful avenue on earth probably, a cross of gigantic Oreodoxa regia. The avenue is a good half a mile long in each wing, built up by several thousands of perfect majestic crowns towering each one two hundred feet above you. The time I visited it, there was a perfect summer morning sky, the light clouds tinted in all rainbow colors and once in a while a breeze was swinging the palm-blades enough to cause a rustling noise through the air, as if a big flock of birds were passing. I walked admiringly through the whole length of it twice and, when an old leaf dropped off and fell, I stopped to measure its length and weight. It was twenty-four feet long and I had to use both hands to lift it. There is a small stream running through the garden, forming a pond in the same, and floating leisurely to the bay, a rifle-shot distant. A walk to the pond leads through a lawn, along the border of which stand numerous four and five-feet high agaves of different species — a group which can be rivaled perhaps only in a few Italian parks. Of course then there are all the other tropical plants, collections of East Indian, Australian, and African palms, such as our conservatories contain, but here acclimatized and in all their native lavishness, size, and strength. Curious is a bamboo walk along the stream, on account of its coolness. This walk with the fifty to sixty feet long, overhanging, bamboo stems on one side, and the water on the other side, is almost as dark and as cool as the stream beneath, so completely are the sunrays shut out forever as long as the bamboo is left and taken care of. The tops of the bamboo are as thin as a little finger, but the lowest link between the first two notches will be found six to seven inches in diameter. This variety is the Bambusa latifolia, used throughout country towns in Brazil to make the street decorations on the numerous holidays. Two of the poles are simply planted in each street gutter opposite each other, the tops bent together and some bunches of green palm leaves and red dracæna blades tied around them, between which on a string hang flags and Chinese lanterns.

Little parrots and monkeys inhabit the trees of the botanical garden, the size of woodpeckers and squirrels and they act much like these. Past a group of tree-ferns you come to a walk, which leads you to the department of smaller plants and of tropical herbs, etc. You can see, for instance, here a vanilla vine climbing on a trunk of a forest tree, looking much like a stringy smooth cactus. Or you can go a few steps further to see a tree full of melons, Carica papaya botanically, a tree with feminine and masculine flowers on different trees, but the former has flowers and edible fruits in all stages and in all months of the year. You may look on aquatics or plants like the orchids living in the air and at terrestrial plants from all continents, but as soon as you pass out of the gates of the park into the street, you will not find a single weed or grass blade of northern vegetation on the adjoining pastures or fruitlands.

There are several parks in the city beside the Jardin botanico; their beds are full of Begonia rex or of caladiums and have elegant phœnix palms and cycas, etc., but a nearer description is not necessary for a general picture of South American horticulture. Many objects of Brazilian horticulture and floriculture might be shown yet — many unknown, but interesting features narrated and admired. When the young Republic has had a few more years of progress, who knows if the present fashion of traveling to the Mediterranean will not be succeeded by a fashion to travel to the far south. GERHARD BLEICKEN.

Wilfrid Wheeler



We present with much pleasure the portrait of the newly appointed chairman of the fruit committee of the Massachusetts Horticultural Society. We believe that the infusion of young, progressive blood will do much to stimulate interest and progress in this department of this influential society's work, and that the result will eventually be a quickened life and stimulus for the fruit interests of Massachusetts.

Agricultural development in sections more richly endowed by nature, fast freights and refrigerator cars, have in recent years changed the conditions under which fruit growing in New England may be profitably conducted, and the Wilder and Hovey era has gone forever. These men were great — great enough to adapt their work to the needs and the opportunities of their times. Were they young men of to-day we should expect them to work on the exigencies of to-day — not on the glorious memories of half-a-century ago. Such a man we believe Wilfrid Wheeler to be and this is why we congratulate the society.

Mr. Wheeler is 28 years of age. His theoretical training in horticulture consisted of five months in England and France, one year in Brown University, one year at the Bussey Institution and a course of lectures at Harvard. He has personally seen and tested over one hundred and fifty varieties of strawberries and has at the present time over fifty sorts under cultivation besides a wide range of varieties of all hardy fruits, at Concord, Mass.

HORTICULTURE

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DEVOTED TO THE

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Every one should read President Eliot's address at Buffalo, which appears in this issue. The sentiments therein expressed and horticultural progress fit well together.

The story of the recent Paris exhibition as told in this issue rather excites our envy. Natural effectiveness in such a display can never be fully attained except by plunging the flower pots in the ground. Horticultural Hall, Boston, is adapted to this manner of exhibition, but it has been so used only once and then with grand effect.

The rhododendrons, noblest of all decorative shrubs, show the effects of the pitiless winter in denuded stems and blighted flower buds. Any variety that has come out of the fray unscathed this year, need never again have a question raised as to its hardiness. Some valuable lists will be found on another page of this issue.

The pæony next comes in to claim special attention. The present awakening to the merits of the herbaceous pæony merits the cordial encouragement of all garden lovers and is, we hope, but the beginning of an unprecedented popularizing of this useful border plant which combines richest colors, finest forms, luxuriant foliage, hardiness of constitution, and easiness of culture in a remarkable degree and has limitless possibilities as a florists' cut flower, as well.

And now the "Flower Sundays." Where is there a religion so pure as is silently taught in the persuasive perfume, form and color of the flowers? It is one of the most hopeful signs of our times that the churches are giving more attention to this form of Creator worship and less to dogmatic, intolerant theology. Florists can at this season afford to be generous.

> "For what is worth is anything
> But so much money as 'twill bring."

is a hard truth forced upon the florist for pretty close to 365 days in the year. Flower Sunday may well be made an exception. And, in the long run, sentiment will not be the only recompense.

Our exchange clippings indicate a very wide-spread interest in the window garden topic and general approval of the effort being made to encourage the brightening of the monotony of city streets, by the use of outside window boxes of growing plants. The effect of this philanthropic movement in the poorer districts is not alone to embellish the streets, but it tends to elevate the standard of the people living in these quarters and all possible encouragement should be given by florists, seedsmen, and others, not only because they are direct beneficiaries, but because it means progress toward greater civilization and refinement, better homes and better people.

A recent report from U. S. Consul Fisher at Formosa gives interesting details of Japanese agricultural undertakings in Texas which, if carried to completion will, undoubtedly, lead to a large immigration of Japanese into that region. The plan at the outset is to install about 1,000 farmers on a territory of about 50,000 acres, it being evident that farming is the main enterprise that can at present be profitably undertaken in America by the Japanese, that of growing vegetables being the most inviting. New York is two days, Chicago one and one-half days and San Francisco four days distant. The outcome of this experiment will be watched with interest by horticulturists, for Texas has long been looked upon as likely to prove a good field for the production of many of the plants and bulbs that American florists have heretofore imported from foreign sources. The Japanese, with their fondness for such things and their cleverness in horticultural pursuits, may yet do for us what our own people have lacked the courage to undertake.

The news of the failure of one of the Greek florists in New York with liabilities of $5,368 and "assets nothing," follows closely on our approving comment regarding the recent agitation among the wholesale trade in favor of a mutual understanding in the matter of credits and collections, and is another costly object-lesson on the workings of the prevalent loose methods in the flower trade. With the exception of its twin evil — the hoarding up of perishable stock in advance of a holiday — we are convinced, not alone on theory, but by hard experience, that there is no greater hindrance to the prosperity of all departments of the florists' business than this random credit-giving. Our esteemed New York contemporary kens in our advocacy of this reform something he doesn't like. We hasten to assure him that in this, as in all other movements which HORTICULTURE may urge or commend, our only actuating motive is the desire to help in the bettering of the craft, as is our duty, for

> "Words are things, and a small drop of ink,
> Falling like dew upon a thought, produces
> That which makes thousands, perhaps millions, think."

After Adjournment

And now we read of the "seedless watermelon." This is said to be a Missouri introduction, but we suspect the Englishmen will cut it open and investigate before purchasing this time. "Burnt child fire dredth, quoth Hendyng."

State entomologist J. B. Smith of New Jersey claims that the Newark brand of mosquitoes has been about exterminated by the work of the State commission and that the pests that still torment the Jerseyites are not natives, but come from Staten Island, and respectfully asks New York to keep them at home. We never expected it would come to this.

In these days of spraying for bad insects and syringing for good flowers, it will be worth your while to look up the Shipman kerosine steam pumping outfit advertised in this paper. Robert Montgomery who is one of the best growers on the Boston circuit has one, and says it is indispensable and John McFarland of North Easton, Mass., who also has one, says it is the best investment he ever made.

John Dunbar, writing to the *American Florist* from Rochester, N. Y., mentions Prunus Davidiana as "perfectly hardy." If it has proven so in Rochester, this is quite different from its record in Boston where, after a good trial at the Arnold Arboretum and elsewhere, it proved very unreliable, not only losing its bloom in the early spring freezes, but having the wood badly winter-killed. We wish it were possible to indorse Mr. Duncan's recommendation, for Prunus Davidiana is a gem where it does well.

Under the caption of "Stupendous Ignorance in High Places," editor John P. Brown, in the June issue of *Arboriculture* arraigns the officials in the Bureau of Forestry, U. S. Department of Agriculture, at Washington, for alleged ignorance regarding the identity of catalpa seed and willful obstruction to the work of the International Society of Arboriculture. "Large and influential seed dealers" are also indicted in the same article for distributing millions of bignonioides and hybrid catalpa seed under the name of catalpa speciosa, the incentive thereto being, as assumed, the high cost of collecting speciosa — $3.50 to $5 a pound — "while seed from low-growing inferior trees may be gathered for ten cents per pound."

The ever-vigilant police of New York City have discovered that window boxes on the outside of the window are unlawful and in many sections the floral adornments which had begun to add a bit of brightness to the dingy house-fronts have been ordered removed. There seems no good reason why boxes properly secured should be forbidden. The ordinance is as follows and it certainly does not appear to warrant interference with boxes so fastened.

Section 671 — It shall not be lawful for any person to place or keep on any window-sill, railing, or balcony, top of porch, or any other projection from any house or other building in the city of New York, any earthern flowerpots, wooden box, or other article or thing whatever for the cultivation or retention of flowers, shrubs, vines, or any other article or thing whatever, unless every such flower pot, box, or other article is securely and firmly fastened or protected by iron railings, so fastened as to render it impossible for any such pot, box, or other article to fall into the street, under a penalty of $10 for every offense, to be recovered in the manner now specified by law for the collection of fines imposed for the violation of ordinances of the corporation.

Adopted by the Board of Aldermen, March 9, 1897.

Approved by the Mayor, March 15, 1897.

PHILADELPHIA FACTS AND FANCIES

The fellow who can improve the roses at the bottom of the box will be "some pumpkins!" Another chance for Luther Burbank.

A celebration will be held at the bowling alleys of the club on the 12th inst. to mark the closing of the bowling tournament, in which six teams of club members have been contesting for the past six weeks.

A tragic accident happened at Broad and South Streets on Saturday night, William Joyce a well-known retired gardener being run over and killed by an automobile. Mr. Joyce was seventy-eight years of age and well known in the trade, having been for many years gardener at the old Baldwin mansion on Chestnut Street. He was a notable exhibitor at the shows of the Pennsylvania Horticultural Society in days gone by, and was greatly respected by all who knew him. The reckless drivers of the motor car were arrested. Resolutions were passed by the Florists' Club of which deceased was an honorary member.

Edwin Matthews of the Meehan Nurseries gave an interesting talk on the uses of hardy shrubs for forcing purposes at the monthly meeting of the Florists' Club on the 6th inst.

And now for June weddings. Awake, O north wind; and come thou south; blow upon my garden that the spices thereof may flow out. For the voice of the lawn mower is heard in the land, and the cheerful chug chug of the suburban train inviteth my beloved to come into my garden and eat of its pleasant fruits. The roses appear upon the earth; the time of the singing of birds is come; arise, my love, my fair one, and come away.

Solomon had nothing pessimistic about him. Job had his good points of course; but give me the cheerful Solomon every time.

Among our recent visitors were the genial J. F. Sullivan of Detroit and T. M. Ulam of Pittsburg. A departure from our town was noted on Thursday in the person of Alex. B. Scott, bound for Boston.

Conard and Jones exhibited two new hybrids of Rosa rugosa at last meeting of the Florists' Club which look promising. They were New Century, pink, and Sir Thomas Lipton, white. They also showed two new climbers, Ruby Queen and Pink Queen, hybrids of Mme. Degraw and Wichuraiana. All four very double. Mr. Wintzer has great hopes of them.

June 6th was ladies' day at the Gun Club grounds, Wissinoming. A large number of the members and their ladies attended. The latter did no shooting, but were generous with their applause. A planked shad dinner was a feature of the occasion.

G. C. WATSON.

Henry Reidel, an employé of Warendorff's and for many years connected with the New York retail florist trade, sustained a fracture of the skull by falling down the subway stairs at the 28th street station, on May 27, and is still confined to his bed from the effects of the fall.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

The first annual picnic of the Flower Markets of Boston was held on the grounds of Robert Montgomery in Natick, Saturday, June 3, 1905. It was largely attended by the growers of both markets, all of whom enjoyed themselves immensely. A large contingent left Boston on the 12.15 car from Park Square, arriving at the grounds shortly after one and were cordially greeted by Mr. Montgomery, who gave them the freedom of his place for the afternoon. After partaking of refreshments the ball-teams indulged in some preliminary practice until 2 o'clock when the game was started. It was a close game, fiercely contested throughout and was won in the tenth inning by the Music Hall team, Holden scoring the winning run with two men out. The score —

Innings	1	2	3	4	5	6	7	8	9	10	
Music Hall	3	0	3	2	2	0	0	0	1	2	—13
Park Street	4	4	0	0	0	1	2	0	1	0	—12

Individual totals

Music Hall Market — H. Capers, ss., 1; H. Ward, p., 4; F. Capers, 1b., 3; Matthews, 3b., 1; McFarland, c., 0; Rough, lf., 0; Elwood, cf., 2; Brophy, 2b, 1; *Holden, rf., 1.

Park St. Market — Fisher, p., 1; Evans, rf., 3; Harrigan, 2b., 2; McGinty, 3b., 2; Free, 1b., 2; Crowley, cf., 0; Edgar, c., 2; Grino, lf., 0; Stock, ss., 0.

*Comley substituted for Holden in first three innings.

Umpires: Cowell, C. Ahlgren, Montgomery.

For the Park St. team Fisher pitched a fair game and Edgar behind the bat was A-1. Free covered first in good shape while McGinty on third gathered in everything that came his way. The outfield was not particularly busy but took a chance at everything that happened along.

For the Music Hall team, Ward and McFarland made a battery to be proud of. Ward had good control of the ball and many opposing batsmen cut wide swathes in the air. McFarland caught a fine game. F. Capers at first and Brophy at second played their positions in good shape, while H. Capers at short took everything in reach. Comley, Holden, Rough and Elwood were It in their respective portions of the garden. The umpiring of Cowell was a source of satisfaction to all. Montgomery's decision on McFarland in the last of the ninth raised a storm of protests for McFarland was undoubtedly safe, but Music Hall gracefully bowed to the supreme decision of the umpire and fixed it up all right in the tenth.

Mr. and Mrs. Montgomery served ice cream and cake to the ladies and a hurdy gurdy furnished music for the dancers on the green.

Bernard A. McGinty, of the Park St. market, enters the wholesale commission business this fall. Mr. McGinty was with Welch Brothers for ten years and has been with Montrose Greenhouses for the past two years. He is a popular young man and deserves success.

THOS. F. MATTHEWS.

PERSONAL

Robert Dunn has resigned as foreman at the greenhouses of the P. R. Quinlan Company at Syracuse, N. Y., and will go into business on his own account.

Prof. L. O. Howard sailed from Boston, June 3, on the steamship *Romanic*, one of his objects abroad being the investigation of the matter of parasites available for checking the increase of the gypsy and brown-tail moths.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY

On Saturday and Sunday June 3 and 4, was held the annual rhododendron show of the Massachusetts Horticultural Society at Horticultural Hall, Boston. The display of rhododendrons was meager as compared with the usual exhibit made at this time, but the tardy season has kept the flowers back and but few were open. The exhibitors were Walter Hunnewell who staged three hundred trusses, not for competition, Mrs. J. L. Gardner, E. A. Clark, Blue Hill Nursery, and W. J. Clemson. From the Hunnewell estate came an enormous specimen of Rhododendron lucidum, ten feet high and ten feet in diameter, in a tub, for which a silver medal was awarded to T. D. Hatfield for superior cultivation.

Notwithstanding the paucity of the rhododendron entries the hall was well filled with a splendid promiscuous exhibition. There were hardy azaleas from Wm. Whitman, Mrs. J. L. Gardner, and T. C. Thurlow, German irises from William Whitman, hardy pyrethrums from Mrs. Gardner and W. J. Clemson, hardy herbaceous flowers from Blue Hill Nursery and W. J. Clemson, foliage and flowers of hardy ornamental trees and shrubs from E. A. Clark, Mrs. J. L. Gardner and Warren H. Heustis, tree pæonies from Mrs. J. L. Gardner and T. C. Thurlow. Ed. MacMulkin showed a very fine group of palms and decorative-foliaged plants, E. O. Orpet a vase of odontoglossum crispum and Mrs. E. M. Gill a bunch of big candytuft that even William Sim would doff his hat to.

A splendid show of flowering trees and shrubs was made by the Boston Park department for which a vote of thanks was recorded and a similar recognition was given R. & J. Farquhar & Co. for a display of herbaceous flowers.

J. E. Rothwell won a silver gilt medal for display of orchids arranged for effect, a first-class certificate of merit for Lælio-cattleya Lycedas (L. tenebrosa × C. Schroderæ), and honorable mention for Cypripedium Lamonteanum (C. calypso × C. Rothschildianum). E. O. Orpet received a first-class certificate of merit for seedling Lælia tenebrosa × L. purpurata. A cultural certificate was given to W. C. Rust, gardener to Dr. C. G. Weld, for two specimen plants of Calceolaria rugosa Golden Gem, of remarkable beauty. The usual showing of fine vegetables was made by J. C. Stone, A. E. Hartshorn, Ed. Parker, G. D. Moore, W. H. Heustis, W. Warburton, J. B. Shurtleff, Jr., and W. J. Clemson.

IMPORTANT

The annual pæony show of the Massachusetts Horticultural Society, scheduled for Saturday, June 10, has been postponed until June 17, on account of the backward season.

NEWPORT HORTICULTURAL SOCIETY

President Sullivan of the Newport Horticultural Society has appointed Paul Volquardson, Andrew J. Pow, and John P. Hammond, judges for the June exhibition.

An additional sum of $50 for special premiums has been received from Miss Fanny Foster, to be awarded for the best collection of outdoor-grown roses, all named varieties.

Excellent progress is being made with the preparations for the exhibitions; the premium schedules are in the hands of the printer and publisher for more than a week. That the printing and publication of these will be no ordinary task will be easily seen, when it is known that the schedules and advertisements comprise what will be a book 6½″ × 10″ of 76 pages, probably the largest book of the kind ever published in New England.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Preparations for the convention at Washington are being rapidly completed and progressive reports received from all departments indicate a wide-spread interest and the probability of a very large attendance on this occasion.

The opening session will be held at 2 P.M. on Tuesday, August 15, when the usual opening addresses and reports will be presented. The evening of that day will be devoted to the president's reception which will be a very enjoyable social affair. On the two following days the sessions will be in the forenoon and evening, the forenoon meetings being devoted to nominations, elections, discussions upon practical topics, etc., and the evening sessions to two lectures, one on "Work of the Bureau of Plant Industry, U. S. Department of Agriculture, in its Relation to Floriculture and Horticulture," by B. T. Galloway, Chief of Bureau, illustrated by stereopticon slides; the other on "Work of the Bureau of Plant Industry in Encouraging Civic Improvement and the Teaching of Horticulture in the Public Schools," by Miss Susan B. Sipe, illustrated by stereopticon slides.

Attention is called to the prizes offered by Treasurer Beatty, $25, $15, $10, for the first, second, and third best essays on "The Ideal Employer." These papers must be sent to the office of the secretary not later than July 15 without signature, but with the name of the writer accompanying same for the purpose of record, and should not exceed fifteen hundred words each.

Attention is also called to the offer of a silver medal for the best display of cut flowers to be shown in vases.

There will be a very comprehensive special exhibit by the U.S. Department of Agriculture.

The trade exhibition will be held in the National Rifles Armory, and the sessions of the Society in Carrol Hall, which adjoins that building. The exhibition will be under the management of Mr. George H. Cooke, Connecticut avenue and L street, Washington, D. C., and those wishing to secure space should make prompt application to that gentleman. Contrary to the custom heretofore, the exhibition hall will remain open throughout the day without interruption.

The bowling fraternity are actively preparing for an interesting tournament between the representatives of the various cities. Information regarding this feature can be had from Messrs. Phil. Hauswirth, Chicago, or John Westcott, Philadelphia.

Up to the present time reduced railroad rates on certificate plan have been granted by the Trunk Line, New England and Southeastern Passenger Associations, covering all the territory east of Buffalo and Pittsburg, and south and east of the Ohio and Mississippi Rivers, also all points in Canada east of and including Toronto. The Central and Western Passenger Associations, which control transportation west of the above mentioned territory, have not yet been heard from, but will undoubtedly grant a similar reduction, that is, one and one-third fare for the round trip, certificate plan.

Ask your State Vice-President, or the secretary of the nearest florist club for railroad rates and for information regarding excursions which are being arranged that will pass nearest to your home city.

Full details will appear in the preliminary program which will be sent out as usual early in July. The secretary will be glad to answer any inquiries regarding further particulars.

WM. J. STEWART, *Secretary*.
11 Hamilton Place, Boston.

BOTANICAL SOCIETY OF PENNSYLVANIA

Saturday afternoon and evening, June 3, was a red-letter date for the above society. In the afternoon visitors were shown over the grounds and through the conservatories of the Botanic Gardens of the University of Pennsylvania, and in the evening entertaining talks, illustrations, and exhibits, were given in Biological Hall adjoining the gardens. Dr. Miller, Professor Macfarlane, Dr. Harshberger, and other officers of the society were indefatigable in their efforts to provide instruction and entertainment for the troops of visitors.

Dr. Robert Huey spoke on "The natural history of our cultivated roses," a subject on which he is entirely at home. "The likes and dislikes of Poison Ivy," was the topic selected by Miss Laura Woodward, while Mr. H. Stone gave a talk on "The Orchids of our State." Other interesting features on the programme were "Bees in relation to Flowers," by Dr. Phillips; "The preservation of our native wild flowers," by Miss Simons; "Mushrooms edible and otherwise," by Mr. Walmsly.

A display of pæony and iris blooms was staged by Henry A. Dreer and attracted much attention. Dr. L. Rosa Minoka, a young Indian physician exhibited drugs of the native Indians; Mrs. Ladd, water-color drawings and herbarium specimens; Miss Heick and Miss Jones, an excellent exhibit of microscopic objects; while many other interesting exhibits were being made in other sections of the building. Altogether this event, which was officially known as a "Scientific Assembly," proved a great success, and the funds of the Botanic Garden were the better for the many half-dollars surrendered by the visitors for tickets; while the latter certainly got their money's worth and something more. Less than half of the speakers and features of the programme have been mentioned in this condensed report.

G. C. WATSON.

AMERICAN PÆONY SOCIETY

The premium list for the second annual meeting of the American Pæony Society to be held in the Auditorium Hotel, Chicago, on June 16 and 17, has been issued. The list of prizes is as follows:

COMMERCIAL CLASSES — DOUBLE

1. Largest and best collection of varieties, one flower each, first prize, $15; second, $10; third, $5.
2. Collection of best twelve and most distinct varieties, six flowers each, first prize, $10; second, $5.
3. Best collection of varieties in various shades of rose pink, not less than three nor more than six flowers each, first prize, $10; second, $5.
4. Best collection of varieties salmon and flesh-colored, not less than three nor more than six flowers each, first prize, $10; second, $5.
5. Best collection of white varieties, not less than three nor more than six flowers each, first prize, $10; second, $5.
6. Best collection of varieties, cream white and light yellow, not less than three nor more than six flowers each, first prize, $10; second, $5.
7. Best collection of crimson varieties, without stamens, not less than three nor more than six flowers each, first prize, $10; second, $5.
8. Best collection of crimson varieties, with stamens, not less than three nor more than six flowers each, first, $10; second, $5.
9. Best collection of tricolor varieties, in-

cluding flowers with guard petals, collarette and center petals of different colors, not less than three nor more than six flowers each, first prize, $10; second $5.

10. Best twelve specimen varieties, twelve blooms of each variety, first, $25 silver cup donated by *Country Life in America;* second, $10.
11. Best one hundred blooms Festiva Maxima, first prize, $10; second, $5.
12. Best one hundred blooms pink, any shade, first prize, $10; second, $5.
13. Best one hundred blooms crimson, first prize, $10; second, $5.

COMMERCIAL CLASSES SINGLE

14. Best collection of Japanese varieties, including so-called Imperial varieties, first prize, $10; second, $5.
15. Best collection of single varieties, first prize, $10; second, $5.

AMATEUR CLASSES

Open to amateurs and private growers only.

A. Best collection of not less than twelve varieties, one bloom of each variety, first prize, $10; second, $5.
B. Best and largest collection of pure white varieties, one bloom of each variety. first prize, $10; second, $5.
C. Best collection of rose pink varieties, one bloom of each variety, first prize, $10; second, $5.
D. Best collection of salmon and flesh pink varieties, one bloom of each variety, first prize, $10; second, $5.
E. Best collection of tricolored varieties, one bloom of each variety, first prize, $10; second, $5.
F. Best collection of crimson varieties, one bloom of each variety, first prize, $10; second, $5.
G. Best collection of cream and yellow varieties, with or without markings, one bloom of each variety, first prize,$10; second, $5.
H. Best collection of twelve or more single varieties, first prize, $10; second, $5.

The officers of the society are as follows:

President, C. W. Ward, Queens, N. Y.; vice-president, Guy A. Bryant, Princeton, Ill.; treasurer, J. H. Humphreys, Germantown, Pa.; secretary, A. H. Fewkes, Newton Highlands, Mass.

Committee on Nomenclature: John Craig, Horticultural Department, Cornell University, Ithaca, N. Y., Chairman, C. J. Maloy (Ellwanger & Barry), Rochester, N. Y., John A. Charlton, Rochester, N. Y., J. F. Rosenfield, West Point, Neb., A. H. Fewkes, Newton Highlands, Mass.

Manager of Exhibition: J. B. Deamud, 51 and 53 Wabash Ave., Chicago, Ill.

The committee on nomenclature announce the receipt in 1904 of the following named collections for the purpose of planting, and subsequent comparison for verification of names.

EUROPEAN PÆONIES RECEIVED IN 1904

	Varieties contributed
A. Dessert, Chenonceaux, France	200
DeGraff Bros., Leyden, Holland	124
Croux et Fils, Chatenay, (Seine), France. Received April, 1905	76
L. Paillet, Chatenay, (Seine), France. and 75 vars. grafted.	94
L. van Leeuwen & Son, Sassenheim, Holland	43
Peter Barr, 12 and 13 King st., Covent Garden, London, E.	21

AMERICAN PÆONIES RECEIVED IN 1904

Cottage Gardens, Queens, N. Y.	235
Peterson Nursery, Chicago, Ill. and 5 no label	120
John Charlton & Sons, Rochester, N.Y. and 6 numbered	97
Ellwanger & Barry, Rochester, N. Y..	58
Andorra Nurseries, Philadelphia, Pa. 4 numbered, 38 rec'd in 1903	57
W. & T. Smith Co., Geneva, N. Y.	56
J. F. Rosenfield, West Point, Neb. 4 numbered	41
Storrs & Harrison, Painesville, O.	40
Jackson & Perkins Co., Newark, N. Y. 3 numbered	37
A. H. Fewkes, Newton Highlands, Mass.	36

Signed on behalf of this Committee,
JOHN CRAIG, *Chairman.*



DECORATIONS AT BANQUET TO MESSRS. WEBER AND MILLER, ST. LOUIS

(See issue of June 3)

KANSAS CITY FLOWER SHOW

The preliminary program for this notable annual event has been issued and copies may be had on application to Louis W. Shouse, secretary, Convention Hall, Kansas City, Mo. The date of the show will be November 13 to 18.

This exhibition while primarily an enterprise of the Convention Hall Building Company, has the support and coöperation of the local florists of whom a committee of three act as advisory board. This affair is managed in quite a different way from the methods in other cities. Everything is conducted on a very extensive scale and the business end of it is looked after by men who know nothing about flowers but do know something about how to entertain the public and carry on the work because it will be a good thing for the town. The total amount of premiums at present, amount to nearly $5,000 and several classes are yet to be provided for.

HORTICULTURE would like to see this enterprise reap a rich reward for it is no small benefit to American horticulture generally, and we also hope that some of our eastern growers of exhibition flowers will be represented there by exhibits commensurate with the occasion, and the liberal inducements offered.

The New York Florist Club bowlers have begun their practice games, the first of the series having been rolled last Friday evening. As the team to represent New York at the Washington convention is to be selected according to the averages made at these practice games, the following scores recorded at the first attempt will no doubt interest many of our readers:

Shaw	127	157	136	110
Kessler	120	133	121	140
Traendly	105	142	108	100
Guttmann	151	178	164	175
Ford	119	149	135	138
Lang	150	155	185	

NEW JERSEY FLORICULTURAL SOCIETY

The regular monthly meeting of this Society was held in its rooms in Orange, on June 2. The occasion was made a special "ladies' night" and to the usual floral display was added this pleasant social feature. The evening was varied by a musical and dramatic entertainment and light refreshments. Photographs of the exhibits receiving the highest marks for the last five months covered one side of the room. The exhibits for the evening consisted of orchids, Cattleyas Mendelii, Mossiæ and gigas with Cœlogyne Dayana, the necklace orchid, from the collection of Henry Graves, grown by Edwin Thomas. Phalænopsis grandiflora, Lælia elegans, Cyp. Lawrencianum and Cattleyas gigas and Mossiæ from the collection of Wm. Barr, grown by Arthur Bodwell. A collection of cut orchid blooms from Julius Roehrs, of white C. Mossiæ Reineckiana, D. atroviolacum and hybrid Lælia purpurata beautifully illustrating the value of these flowers in decoration. Two vases of enormous Papaver orientalis, grown by Peter Duff. Gloxinias from William Runkle, grown by D. Kindsgrab. A vase of mixed aquilegias, pyrethums from the Colgates', grown by William Read. Pæonies from Stewart Hartshorne, grown by A. Caparn. Papaver and Japanese iris from George Merck, grown by Max Schneider. Pandanus Veitchii and Rhapis humilis, grown by D. Kindsgrab. Arthur Bodwell's Nicotiana Sanderæ were the first which have been shown in this vicinity and a white of this same variety, one out of forty plants, is the first so far published. The judges were Joseph A. Manda, Arthur Caparn, and James Goodyear.

JOSEPH B. DAVIS.

TARRYTOWN HORTICULTURAL SOCIETY

The May meeting of the above society, held on Tuesday, May 30, being the annual ladies' night, only necessary business was transacted. One honorary member and three new active members were elected and two names proposed for membership. The occasion was graced by a large attendance

of the fair sex. A good musical program was gone through and refreshments consisting of ice cream, cake, etc., served. All agreed that it was a very enjoyable evening. The exhibits consisted mostly of cut flowers of hardy shrubs and herbaceous plants.

The June exhibition of roses, strawberries, hardy flowers, etc., will be held in the Young Men's Lyceum on the afternoon and evening of June 13. Schedules for this and also for the fall show may be had from the secretary, E. W. Neubrand. WM. SCOTT, *Cor. Sec'y.*

NOTES

The second international botanical congress meets at Vienna, June 11–18.

The summer meeting of the Missouri State Horticultural Society occurs on June 13–15.

The next exhibition of the Horticultural Society of New York, is scheduled for June 14 and 15 at the New York Botanical Garden.

The rose show of the North Shore Horticultural Society will be held at the Town Hall, Manchester, Mass., on Thursday, June 29. A good schedule of prizes is offered.

The Annandale Rose Show, held in connection with the commencement of St. Stephen's College, one of the most interesting events of the year for the flower lovers of the upper Hudson River, will be held on Wednesday and Thursday, June 14 and 15.

On Monday evening, June 12, will occur the great event — Ladies' Night — for which the New York Florists' Club has been making preparations on a scale of unusual magnificence. A fine exhibition of pæonies is expected to supplement in a feeble way the galaxy of beauty which is sure to be there to feast upon President Traendly's smile and Chief Steward Nugent's strawberries.

OBITUARY

Mrs. C. Leslie Reynolds, wife of the well-known assistant to Superintendant W. R. Smith at the Botanic Garden, Washington, D. C., died last week after a long and painful illness.

W. S. Davis of the firm of A. B. Davis & Son, Purcellville, Va., died suddenly on May 24, at the age of 38 years. As a carnation grower he had established intimate relations with the trade in general, enjoying their respect and confidence, and his untimely taking away brings sadness to many. He was a member of the S. A. F.

Without a moment's warning the dean of the Pacific Coast wholesale trade died this week, and you can report for HORTICULTURE that it is the sense of the entire trade that no better man ever lived or died in California than our decedent brother workman, Michael Lynch of Menlo Park. He was sixty years of age, hale, hearty and active to the last, but while at work in one of his greenhouses, cutting stock for shipment, a paralytic stroke took him from our midst instantly. Michael Lynch was with us here in the coast trade during half his life, and prosperity never deserted him. So large-hearted and affable was he, every body loved him, and at the funeral services, the largest seen in San Mateo County in years, there was a general out-pouring of our San Francisco and outside tradespeople, and hosts of other sorrowing friends. Some of the floral pieces sent in were elaborately rich, and beyond accounting, so numerous were they. Among the In memoriam tributes I remember these trade contributors: Frank Pelicano Company; Cox Seed Company; John H. Sievers Co.; J. C. Vaughan; Evans Company, Salt Lake; Martin & Forbes, Portland, and the Seattle, Washington florists. LUTHER MONNETTE.

THE INTERNATIONAL FLOWER SHOW AT PARIS

The horticultural exhibition which opened at Paris on May 20, for nine days, was a notable one. As far as the quality and quantity of the exhibits was concerned, and financially also, to judge from the large attendance of the public, the show was a great success. It was held in a series of large glass houses, all connected, on the north bank of the river Seine.

The grounds between the entrance gates and the exhibition buildings were tastefully laid out with large beds and shrubs, trained fruit trees, ferns, and hardy plants.

The first of the glass houses contained the orchids which, however, were not so fine as we are accustomed to see at our own exhibitions in London. The Phalænopsis anabilis, however, were an exception. They were finely in flower for the second time in six months. They flowered in December last, their best season of blooming, and again in the month of May they were in full blossom. The beautiful white flowers were most freely produced, one plant bearing a raceme of 24 flowers. In December last it produced 26, so that in six months it had produced 50 flowers. These we were told fetched one shilling each. Mr. Regnier, the exhibitor, is said to make £400 a year from the cut blooms alone.

Ornamental stove plants, such as palms, anthuriums, crotons, dracænas, etc., were finely shown and the various groups of them served to relieve the almost too brilliant color effect produced by the masses of richly colored flowers. All the exhibits were in the form of flower beds; the plants were in pots, and the latter were plunged beneath the soil so that to all appearances the plants were growing where they stood. The larger building resembled a garden, gay with flowers. In fact the whole exhibition was in effect a flower garden, but replete with brilliant color effects impossible to obtain out-of-doors as gardening is ordinarily practised.

Cannas, tuberous begonias, Japanese irises, roses, azaleas, pæonies, pelargoniums, and many other plants filled separate beds, and while each made an admirable exhibit in itself, they were so arranged as to produce a most striking general effect. The Ghent azaleas and rhododendrons alone filled a large building; they were planted in large clumps and masses and made a miniature forest of shrub and flower.

One of the finest features of the exhibition was the display of floral decorations. In this direction the Parisian artists perhaps are not excelled. The huge vases, baskets, and épergnes were filled with lilac, hydrangeas, roses, lilies, and other flowers, and although freely arranged and a wealth of material used, there were no heavy effects.

The Parisian does his decorations with a light hand and the result is seen in the graceful displays produced. The German floral decorations, which were extensively shown, were poor in comparison. The general effect to the onlooker was one of heaviness and unpleasing color associations. Beds filled with annual flowers were a sight worth going far to see; they were literally ablaze with color.

Vegetables too were a good feature. Messrs. Vilmorin, the famous French seed growers and nurserymen, had a wonderful exhibit of vegetables, some eight hundred varieties being shown altogether in an exhibit more than one hundred yards long. The salads, which figure so largely in the French menu, were represented by many plants that an Englishman would never dream to be edible.

H. H. THOMAS.

BEAUTY AND DEMOCRACY

The following is an abstract from the address of President Charles W. Eliot delivered at the dedication of the Albright Art Gallery at Buffalo on May 31.

"The ultimate object of democracy is to increase the satisfaction and joys of life for the great mass of the people — to increase them absolutely and also relatively to pains and sorrows. In other words, the final aim of government by the people for the people is to increase to the highest possible degree, and for the greatest possible number of persons, the pleasurable sensations, or cheerful feelings, which contribute to make life happy, and to reduce to the lowest terms the preventable evils which go to make life miserable.

"Among the means of increasing innocent, pleasurable sensations and emotions for multitudes of men and women, none is more potent than the cultivation of the sense of beauty. Beauty means a thing enjoyable. It must always be something which excites in human beings pleasurable sensations and emotions. Beauty is infinitely various, and it is omnipresent. It is accessible, therefore, to all men in all places and in all moods, and its infinite value for pleasure and content only waits on the development of the capacity in human beings to feel and to appreciate it.

"The oldest and readiest means of cultivating the sense of beauty is habitual observation of the heavens, for which the only things needed are the open sight of the sky and the observing eye. The heavens are always declaring 'the glory of God.' The noblest poetry of all nations celebrates the majesty and splendor of the sky. Psalmist, prophet, and artist draw thence their loftiest teachings. Sun, moon, and stars, sunset and sunrise, clouds tossed and torn by wind, floating or driving mists and fogs, snow, rain and the clear blue are all phenomena of the sky, which will afford endless delights to him who watches them. The dweller on the prairie or the sea has the best chance at the sky, and the dweller in narrow streets, hemmed in by tall buildings, has the worst. This obstruction of the sight of the sky is one of the grave evils which beset a modern urban population.

"City people run about at the bottom of deep ditches, and often can only see a narrow strip of the heavens. Fortunately the loftiest structures reared by men are not so high but that a moderate open area in the midst of a closely-built city will give a prospect of large sections of the heavens. This is one of the great things gained for an urban population by accessible open spaces, such as parks, commons, marshes, and reaches or ponds of water.

"Next to observation of the sky as means of developing the sense of beauty comes observation of the landscape. Landscape includes innumerable and very various objects of beauty; for it includes beauty of form, of texture, of color, and of luster.

"Over every landscape hangs the sky, contributing lights and shadows, brilliancy or somberness, perfect calm or boisterous windiness. The ear shares with the eye the beautiful effects of weather on landscape. The rushing of the storm through the narrow valley, the murmuring tremor of the pines in the gentle breeze, the rustling and bowing of a field of corn in an August gale, the clatter of palmettoes in a wind, the rattle of pebbles on a beach dragged down by the retiring wave, the onset of a thunder shower are delights for the ear as well as the eye. For such implanting and developing of the sense of beauty in the minds of urban populations a large new provision has been made by many American cities during the past twenty years.

"Another means of increasing the enjoyment of beauty which has of late years be-

come commoner in our country than it used to be is the cultivation of flowers and flowering shrubs in houses or house lots, and in gardens, both public and private. This cultivation is a very humane and civilizing source of enjoyment. It is usually a pleasure shared with others, and it is as enjoyable on the small scale as on the large for the individual planter and tender. One of the encouraging signs about American systematic education is that school boards and teachers are beginning to see the utility of school gardens. 'How Plants Grow' was the title of one of Asa Gray's best books. The place to teach that subject is not the lecture room, or the laboratory, but the garden plot.

"It is said that the first art a barbarous people develops and fosters effectively is architecture. Shelter is a primary necessity; so the earliest arts and trades will provide shelters. For the worship of their gods all peoples try to rear imposing structures. The American people, if we study them all across the continent, seem to mean that their best buildings shall be schoolhouses and libraries — certainly not a bad choice. They are also ready to pay for costly buildings for the use of government — national, state, or municipal — each citizen having some sense of individual proprietorship in such buildings. If we could always get in our public buildings the beauty of good proportion and of pleasing decoration, what an addition to the every-day enjoyment of the population would such good architecture give.

"To pass a noble building every day in going from the home to the work shop makes an appreciable addition to the satisfaction of the citizen. To go to school in a house well designed and well decorated gives a pleasure to the pupils which is an important part of their training. To live in a pretty cottage surrounded by a pleasing garden is a great privilege for the country-bred child. The boy who was brought up in a New England farmhouse, overhung by stately elms, approached through an avenue of maples or limes, and having a dooryard hedged about with lilacs, will carry that fair picture in his mind through a long exile, and in his old age revisit it with delight. In regard to public buildings, however, it is all-important that they should be not only noble in design, but also nobly used and occupied.

"The provision of public museums like this beautiful structure whose opening we commemorate to-day is another means of educating the popular sense of beauty. By casts, prints, etchings, and photographs a good collection trains the eyes of the people to appreciate beauty of outline, of light and shade, of symmetry and proportion. Vases and textile fabrics supply instruction in color, luster and texture. For training the eye to the appreciation of beautiful compositions in color, good paintings are necessary. Examples of the work of the greatest masters in color are, of course, very difficult to obtain for exhibition in the United States; but a few such objects in our best collections would have an immeasurable value. Unfortunately our barbarous legislation, taxing imported works of art, piles on the natural difficulties of our situation a serious artificial obstruction.

"The best place to inculcate the love of the beautiful is the schoolroom. To the rising generation the most effective lessons can be given, and from the school millions of children will carry the lessons to millions of homes. After reading, spelling, writing, and ciphering with small numbers and in simple operations, drawing should be the most important common-school subject. All children should learn how lines straight and curved and lights and shades form pictures and may be made to express symmetry and beauty. All children should acquire by use of pencil and brush power of observation and exactness in copying, and should learn through their own work what the elements of beauty are.

"It is monstrous that the common school should give much time to compound numbers, bank discount, and stenography, and little time to drawing. It is monstrous that the school which prepares for college should give four or five hours a week for two years to Greek, and no time at all to drawing. The main object in every school should be, not to provide the children with means of earning a livelihood, but to show them how to live a happy and worthy life, inspired by ideals which exalt and dignify both labor and leisure. To see beauty and to love it is to possess large securities for such a life.

"When, therefore, the citizens of Buffalo assemble in this beautiful park to dedicate this beautiful building and its collections to the public service, they are commending to the rest of the nation a high example of private beneficence which will promote, in a wise and sound way, democratic happiness."

NEWS NOTES

Paul R. Burtt of Lowell, Mass., while boarding an electric car on Sunday was thrown to the ground by a passing wagon and sustained severe injuries.

Men fumigating the greenhouses of Pennock Sharpless, at Concordville, Pa., on May 26, set fire to them and the buildings were completely destroyed, entailing a loss of $10,000.

A blaze which promised to be serious started in the store of F. L. Knapper, corner of Fifth street and Fairmount avenue, Philadelphia, but was at last conquered with the aid of a neighbor and a hand extinguisher.

Burlington, Vt., is soon to come into possession of a handsome park through the generosity of Hon. W. J. Van Patten, a former mayor. The track includes the famous Indian Rock and the Ethan Allen farm, thus giving it historic interest.

President and Mrs. Roosevelt's annual Memorial Day tribute to the memory of President McKinley was a wreath of pink and white roses, three feet in diameter. It was received by Mrs. McKinley on Monday and placed on the coffin of the President in the afternoon.

Bishop Leonard of Cleveland, it is said, has raised his voice against elaborate floral decorations for weddings in the chancel of Trinity Cathedral, as they detract from the solemnity of the occasion. Hereafter florists must confine their efforts to the aisles and walls.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

T. W. Wood and wife sailed for a Mediterranean cruise from New York, on Saturday, July 3.

Too much rain in the west, and too little in the east, seems to about describe present conditions.

The results of experiments at the Maine Experiment Station during the past year, show that the yield of tomatoes is increased by fully one-third by trimming the plants after part of the fruit is set.

Owing to a shortage in the present crop, corn and beans are temporarily exempted from import duties in Costa Rica. The exemption went into effect May 1, and is to continue until December 31 of the present year.

While it is too early to venture any opinion as to the bean crop in the east, the condition of the pea crop is causing growers some anxiety. Conditions of these and other crops will be reported in these columns from time to time.

The latest reports from California show that conditions are going from bad to worse with the onion seed, and a very short crop will undoubtedly be harvested. With a short crop of onions and onion seed, and the consequent high prices, onion seed should be in active demand next season and at much higher prices than for several years. Favors large or small, thankfully received.

All eyes in the seed trade are now turned towards Alexandria Bay, which will be the Mecca for the faithful this season. This is one of nature's "Beauty Spots" and all who attend the convention of the American Seed Trade Association, which is to be held there this year, June 20 to 22, may be assured of a delightful, restful time, and will carry pleasant memories of the occasion for many years to come.

A liberal programme of entertainments has been arranged by that prince of good fellows, W. H. Grenell. 'Nough said.

Mr. Chas. Loechner of New York has just returned from a trip abroad on the Dampfer Kaiser Wilhelm II.



Here we have a snapshot at the Rickards Brothers, W. C. Rickards, Jr., whose sunny temperament has illumined the front half of Thorburn's seed store during business hours for "lo, these many years" and his brother Alfred J., in the act of entertaining their friends with a song, as is their custom when a well-earned holiday comes and all business is forgotten in the flow of sociability and comradeship. There are some other boys in the seed trade who *think* they can sing, but the Rickards Bros. dispense the real article.

Strike Scenes in Chicago



The wholesale cut flower shipping business has been conducted under difficulties since the great teamsters' strike went into effect. The two illustrations herewith show how the teaming was conducted. The first shows the accumulation one hour before train time on Sunday, May 28. Several such lots were handled, the estimated value of the packages in sight being $5,000. The other view shows the wagons ready to start for the station half an hour before train time. Many of the representative wholesale men are seen in this picture.

Over six thousand shipments have been handled since the inauguration of the strike on April 27. The service, under the able management of F. Lautenschlager, HORTICULTURE'S Chicago representative, has been so satisfactory that the shippers and receivers assert it is far superior in efficiency and promptness to the former express service. Express company officials also speak highly of the management and say that there have been less losses than under ordinary service.

We are indebted to the Gibson Art Galleries for the use of the photographs.



FRED LAUTENSCHLAGER

Manager of Transportation for Chicago Wholesale Florists' Asso. during the strike. Represents HORTICULTURE in Chicago.

The florists' meeting at Louisville, Ky., which was to be held June 6, will be held June 13, instead, at William Walker's store, and the attendance should be large as many things of importance will come up. There are several new members.



Cut-Flower Market Reports

BOSTON Business is badly broken in this market, and values are demoralized on many lines. Special grades of roses are not easily procured, most of the bloom from plants that have flowered through the winter being now fagged out. The best roses today are Carnot and Kaiserin. Carnations are down in quality and price. Pæonies are now coming in, and in a few days will be abundant. Trade is dull generally with the wholesalers and retailers alike.

BUFFALO Reports from florists state that the Decoration Day's business was satisfactory to all. Stock seemed to be a little scarce at times, due undoubtedly to the cold weather. Tulips were about over with, while pæonies were not seen, as in former years. Lilacs, valley and deutzia could be obtained in quantities.

The latter part of the week stock has been more plentiful, and there was ready sale for good carnations, roses, lilies and peas. Some of the finest Liberty, Maids, Carnots and Kaiserin, which are grown a short distance from Buffalo are snapped up quickly, at good prices. The demand for Beauties is also fair. The outlook for June is good, decorations and graduations being in order.

CHICAGO An unusually strong demand in all lines was well maintained the entire week. Carnations were the strong feature, the demand sufficient to command steady prices. The tendency of prices while upward did not reach the holiday values of the previous week. There was much business done in pæonies; values on Festiva maxima averaged $1. to $1.25 per dozen. The ordinary sorts being in heavy supply, prices rule uncertain. American Beauties, especially the choice grades, are above the requirements. Teas are moving well under a plentiful supply; Liberties move readily and command quoted prices. The choicest lilies of the season are now offered. Sweet peas are holding values wonderfully for so late in the season; outdoor stock is promised shortly. An abundance of perennial cut-flower stock is on sale, as pyrethrum, iris, campanulas, poppies, only to be out-numbered by oceans of home-grown pæonies, the single sorts dragging.

The week commencing June 5 was marked by an enormous expansion in receipts, and values have considerably decreased. All the market is thrown out of plumb.

CINCINNATI Since last report business in all lines has greatly improved. All the growers and retail stores report trade as very good for Decoration Day. Inside stock such as roses, lilies, and carnations were scarce and good prices were realized. Pæonies and other out-door flowers were more in evidence but sold readily. As usual on Decoration Day we had the customary heavy rain storms, but these held off until about 4 o'clock in the afternoon, thereby giving all the florists ample time to sell out all the left over stock. Several of the store men have large orders booked for weddings, commencements, etc., for this month, but are having their troubles in getting the material to fill them.

INDIANAPOLIS Notwithstanding the fact that outside flowers were to be had in great abundance and variety, Memorial Day trade was unusually brisk in plants as well as cut flowers. Good prices were realized, both wholesale and retail. Pæonies and carnations were in most demand but anything in the way of a flower was sold.

LOUISVILLE The previous week business conditions had been very good; however, Decoration Day did not cause this, as there were

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NOVEMBER 13th TO 18th INCLUSIVE

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but few orders, none of them amounting to very much. Carnations of medium quality find a good demand, but the supply is not quite adequate. Good quantities of roses are obtainable and sell well, the quality being good. The demand for pæonies is not quite so heavy, but they are excellent in quality.

MONTREAL Business in the stores has been largely confined to the supply of bedding stock, for which there has been a more than usually strong demand. There is promise of an early clean-up in many cases. The custom of renovating the graves in the cemeteries, notably on Victoria day by the people, gave a good early start to the trade. Large rustic stands and window boxes have also been in demand. Lonicera reticulata aurea, lophospermums and German ivy coming in useful for this work. In cut flowers, out-door-grown lily of the valley has been in some little time and though its season is short, its arrival is a welcome one. Roses, with the exception of Beauties, are hardly up to the usually high standard, but there is a general looking forward to a ready sale during this month of weddings and roses. Outside plants everywhere are putting on growth with great rapidity. Fruit trees are literally loaded with bloom and with immunity from any late frost, promise heavy crops in the fall.

NEW YORK A congested condition prevails at present in the cut-flower market with regard to pæonies and other out-door material as well as roses, carnations, etc. Prime American Beauty, Bride, Bridesmaid and moss roses, and lavender and white sweet peas are selling at best figures, but there is a great mass of material on which very little can be realized. General trade conditions are dull, and it is only the June weddings that cause any demand and prevent the market from dropping into complete stagnation.

PHILADELPHIA Roses went off in pretty good shape past week; quality fell off considerably, but volume kept up except during a couple of cool days. Beauties, Liberties, Brides, Bridesmaids, and Kaiserins are the principals. Carnations have been off since Decoration Day, quality and price both having suffered. Pæonies are abundant, particularly pink. Red and white are not so plentiful. These are in good demand for June weddings. Sweet peas and lily of the valley normal, and fine quality. Dendrobium Jamesianum has made its appearance in small quantity.

PROVIDENCE Decoration Day business was very good, going ahead of former years with some. Pots and earthern pans of geraniums, etc., were more generally used for cemetery lots. There was a good supply of most everything in cut flowers, white stock predominating.

PURE CULTURE MUSHROOM SPAWN

Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; $1.25 per 10 lbs.; $10.00 per 100 lbs. Information as to Special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh importation, 8c. per lb.; 75c. per 10 lbs.; $6.00 per 100 lbs.; $55.00 per 1000 lbs.

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Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

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Good bedding stock is somewhat scarce here. We find a better demand for bedding and herbaceous stock each year.

SAN FRANCISCO As a flower traffic day in San Francisco this year's 30th of May lined up fully abreast of the best Memorial Day flower-sale record ever before scored. And within the last preceding six years there have been at least two of these seasons when San Francisco florists reported sales as something enormous.

Naturally then the good outcome yield in last week's Memorial Day flower business should anyhow be sufficient to produce a trade atmosphere of buoyancy that would not perish in a week. But, nevertheless, it has perished, and at this writing, only a half week after Memorial Day, all buoyancy of spirits in trade circles is lost from sight and very perceptible is the prevailing shadow, owing to the death of Michael Lynch of Menlo Park, an account of which appears in the obituary column.

KAIZERIN
2¼-inch Pots
$3.00 ..... per 100
$25.00 ..... per 1000

VIOLETS
3000 fine Clumps
Lady Campbell
$5.00 ..... per 100
$45.00 ..... per 1000

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From flats. Well grown and thrifty.
Plumosus Nanus ..... $10.00 per 1000
Sprengeri ..... 8.00 per 1000
Large 3-inch Plumosus Nanus ..... 25.00 per 1000
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO June 6	ST. LOUIS June 6	PHILA. June 6	BOSTON June 7
ROSES				
Am. Beauty, Fan. & Sp.	22.00 to 25.00	..... to 25.00	20.00 to 25.00	20.00 to 25.00
" Extra	18.00 to 20.00	15.00 to 20.00	10.00 to 15.00	12.00 to 15.00
" No. 1	10.00 to 15.00	10.00 to 12.50	6.00 to 8.00	4.00 to 8.00
" Lower grades	2.00 to 6.00	4.00 to 8.00	5.00 to	1.00 to 2.00
Bride & 'Maid — Fan. & Sp.	6.00 to 8.00	..... to 6.00	10.00 to 12.00	4.00 to 6.00
" " Extra	5.00 to 6.00	4.00 to 5.00	7.00 to 8.00	2.00 to 3.00
" " No. 1 and Lower gr.	1.00 to 4.00	..... to 3.00	4.00 to 6.00	.50 to 2.00
Liberty, Fancy & Special	10.00 to 12.00	..... to 8.00	20.00 to 25.00	10.00 to 12.00
" extra	8.00 to 10.00	5.00 to 6.00	15.00 to 18.00	8.00 to 10.00
" No. 1	6.00 to 7.50	..... to 4.00	10.00 to 12.00	4.00 to 6.00
Meteor	..... to	..... to	..... to	2.00 to 6.00
Carnot and Kaiserin	4.00 to 10.00	..... to	..... to	4.00 to 10.00
Golden Gate, Ivory, Chatenay — Best	6.00 to 8.00	5.00 to 6.00	..... to 10.00	5.00 to 6.00
Golden Gate, Ivory, Chatenay — Medium	4.00 to 5.00	..... to 4.00	..... to	3.00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	2.00 to 3.00	3.00 to	..... to	1.00 to 2.00
CARNATIONS				
Fancy Class	2.00 to 3.00	2.50 to 3.00	2.50 to 3.00	1.50 to 2.00
General Class	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00	.75 to 1.00
ORCHIDS				
Cattleyas	50.00 to 60.00	..... to	60.00 to	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	6.00 to 8.00	12.50 to	6.00 to 8.00
Lily of the Valley	2.00 to 4.00	..... to	3.00 to 5.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	1.00 to 2.00
Daffodils	..... to	..... to	..... to	..... to .....
Callas	6.00 to 8.00	..... to	..... to	6.00 to 8.00
MISCELLANEOUS				
Mignonette	2.00 to 4.00	..... to	..... to	1.00 to 2.00
Sweet Peas	.50 to 1.00	.20 to .35	.50 to 1.00	.50 to .75
Adiantum Cuneatum	.50 to .75	..... to 1.00	1.00 to	..... to 1.00
" Croweanum	..... to	..... to	1.50 to	..... to 1.50
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	10.00 to 15.00	12.50 to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to	25.00 to 50.00	35.00 to 50.00
" " bunches	35.00 to 75.00	..... to	25.00 to 50.00	35.00 to 50.00
" Sprengeri "	25.00 to 50.00	25.00 to 75.00	25.00 to 50.00	25.00 to 35.00
Gardenias	1.50 to 2.00	..... to	..... to	..... to .....
Pæonies	3.00 to 12.50	..... to	..... to	4.00 to 6.00

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For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy.

		100	1000
American Beauty,	3½-inch,	$6.00	$50.00
American Beauty,	2-inch,	4.00	35.00
Gen'l McArthur,	3½-inch,	8.00	75.00
Uncle John,	3½-inch,	3.50	30.00
Uncle John,	2-inch,	$2.50	$20.00
Chatenay,	3½-inch,	3.50	30.00
Brides,	3½-inch,	3.50	30.00
Bridesmaid,	2-inch,	2.50	20.00

American Beauty (Bench Plants) $4.00 per 100; $35.00 per 1000

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Enchantress	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Lawson (Pink)	Stella	Harry Fenn	Triumph	Peru
Boston Market	Crusader	Roosevelt	Mrs. Ine	Guardian Angel

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Prices furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in A1 CONDITION.

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FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 35c. per large bundle. Southern wild Smilax, 50-lb. cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

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BUSINESS CHANGES

Matthias Mann, succeeds John Brod, Niles Centre, Ill.

Thomas H. Phelan succeeds W. G. Richardson at Bennington, Vt.

Glyndon Gardens Company has been incorporated at Baltimore.

Houghton & Clark, Boston, have moved to a new store at 396 Boylston street.

G. Stern has leased the William Hillebrecht greenhouses at Secaucus, N. J.

Hermens & Reiger, have opened a retail store at 457 Fifth avenue, Brooklyn, N. Y.

Trepel & Co., have opened a new store at Broadway and Willoughby avenue, Brooklyn, N. Y.

M. Rovatzos of 44 West 29th street, New York, has assigned. Liabilities, $5,368. Assets in the air.

D. C. Horgan has purchased the Idle Hour Nurseries at Macon, Ga. There are eight modern greenhouses on the estate.

P. A. Keene, late of Keene & Foulke, Flushing, N. Y., will represent the Morris Nursery of West Chester, Pa., with an office in New York.

Charles F. Fairfield has sold his establishment at 154 State street, Springfield, Mass., to Nelson F. Higgins of 239 Pine street, who has been employed by the Springfield cemetery association. Mr. Higgins has taken possession of the store.

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

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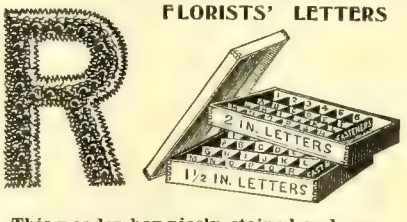
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MANUFACTURERS OF

FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, 3. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager

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Florists' Supplies

BEST LINE IN THE COUNTRY

Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST. - - - BOSTON

Telephone, Main 58

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COMMISSION FLORISTS
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48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
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Consignments received, sold well and returns made promptly
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Florists' Supplies and Letters
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Wholesale Commission Florist
57 West 28th Street - - NEW YORK
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties
of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and
all other flowers
in season
Telephones 2200 Madison / 2001 Square
Special care taken with Shipping Orders
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ALEX. McCONNELL
546 Fifth Ave., NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
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Lilies Plants and Cut Blooms
Of Highest Grade at ALL SEASONS
Japanese Miniature Plants
RHAPIS
Hinode Florist Co.
5th Street, Woodside N. Y.
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending June 3 1905	First Half of Week beginning June 5 1905
ROSES		
Am. Beauty, fan. and sp	15.00 to 20.00	12.00 to 20.00
" extra	5.00 to 10.00	8.00 to 12.00
" No. 1	2.00 to 4.00	4.00 to 8.00
" Lower grades	.50 to 1.00	1.00 to 2.00
Bride & Maid, fan. and sp	4.00 to 5.00	4.00 to 6.00
" " extra	2.00 to 3.00	2.00 to 4.00
" " No. 1 and Lower gr.	.50 to 2.00	.50 to 2.00
Liberty, fan. and sp.	8.00 to 12.00	5.00 to 8.00
" extra	5.00 to 6.00	3.00 to 5.00
" No. 1	2.00 to 3.00	2.00 to 3.00
Meteor	2.00 to 10.00	..... to .....
Jacq	..... to	..... to .....
Brunner	..... to	..... to .....
Carnot and Kaiserin	1.00 to 5.00	2.00 to 6.00
Golden Gate / Ivory / Chatenay — Best	4.00 to 6.00	..... to .....
Golden Gate / Ivory / Chatenay — Medium	1.50 to 2.00	..... to .....
Golden Gate / Ivory / Chatenay — Culls	.50 to 1.00	..... to .....
CARNATIONS		
Fancy Class	1.00 to 2.00	1.50 to 2.00
General Class	.50 to 1.00	.50 to 1.00
ORCHIDS		
Cattleyas	75.00 to 100.00	..... to .....
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	3.00 to 4.00	2.00 to 4.00
Stocks	..... to	..... to .....
Daffodils	..... to	..... to .....
Tulips	..... to	..... to .....
Callas	4.00 to 6.00	..... to .....
MISCELLANEOUS		
Mignonette	.50 to 1.50	.50 to 2.00
Sweet Peas	2.00 to 10.00	.25 to 1.00
Adiantum Cuneatum	.50 to 1.00	.50 to .75
" Croweanum	..... to 1.50	..... to 1.50
" Farleyense	..... to 15.00	..... to .....
Smilax	..... to 15.00	8.00 to 12.00
Asparagus Plumosus, strings	..... to	..... to .....
" " bunches	15.00 to 25.00	15.00 to 25.00
" Sprengeri "	10.00 to 20.00	10.00 to 20.00
Gardenias	4.00 to 15.00	..... to .....
Lilacs, bunches	..... to	..... to .....
Pæonies	..... to	..... to .....

WEILAND-AND-RISCH
CHICAGO'S RELIABLE
Wholesale Growers and Shippers of
CUT FLOWERS.
59 Wabash Ave., CHICAGO.
Send for weekly price list.
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Cut Flowers on Commission
A Reliable Place to Consign to or order from
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FLORISTS' SUPPLIES
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Long Distance 'Phone, 1435 Court.
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55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
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113 W. 30th St., NEW YORK CITY
Tel. 854 Madison Sq.
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation
"Victory"
To be disseminated 1906. Also a complete line of choicest flowers,
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52 WEST 29TH ST. NEW YORK
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Wholesale Florist
Consignments Solicited
43 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Shipping orders supplied with selected Flowers at reasonable prices. Send for circular.
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

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122 W. 25th St., New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Galax Leaves and all Decorative Greens
Agents for CALDWELL'S PARLOR BRAND WILD SMILAX
In writing to advertisers, mention HORTICULTURE

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON

WIETOR BROS.
Wholesale Growers of
CUT FLOWERS
51-53 Wabash Ave., CHICAGO, ILL.
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Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
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Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

OUR FLOWERS
Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unexcelled quality EVERY DAY IN THE YEAR.
We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
TRAENDLY & SCHENCK
44 West 28th St. New York City Telephones, 798-799 Madison Square

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI June 6	BALTIMORE	BUFFALO June 6	PITTSBURG June 6
ROSES				
Am. Beauty, fan. and sp.	..... to 4.00	..... to	20.00 to 25.00	20.00 to 25.00
" extra	..... to 3.00	..... to	15.00 to 20.00	12.00 to 15.00
" No. 1	..... to 2.00	..... to	10.00 to 15.00	6.00 to 8.00
" Lower grades	8.00 to 10.00	..... to	2.00 to 5.00	2.00 to 4.00
Bride & 'Maid, fan and sp.	5.00 to 6.00	..... to	6.00 to 8.00	..... to 8.00
" " extra	..... to 4.00	..... to	4.00 to 6.00	..... to 6.00
" " No. 1 and Lower gr.	2.00 to 3.00	..... to	2.00 to 4.00	2.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	6.00 to 10.00	..... to 15.00
" extra	..... to 4.00	..... to	5.00 to 6.00	..... to 12.00
" No. 1	..... to 3.00	..... to	4.00 to 5.00	..... to 10.00
Meteor	..... to	..... to	2.00 to 6.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Carnot and Kaiserin	..... to	..... to	3.00 to 8.00	4.00 to 12.00
Golden Gate) Best	..... to 6.00	..... to	5.00 to 6.00	..... to 12.00
Ivory) Medium	4.00 to 5.00	..... to	4.00 to 5.00	..... to 6.00
Chatenay) Culls	2.00 to 3.00	..... to	..... to	..... to 3.00
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to	2.00 to 3.00	..... to 3.00
General Class	1.00 to 2.50	..... to	1.00 to 2.00	.75 to 2.00
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	..... to 10.00	..... to	10.00 to 12.00	8.00 to 12.00
Lily of the Valley	3.00 to 4.00	..... to	3.00 to 4.00	3.00 to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	..... to	..... to .....
Tulips	..... to	..... to	..... to	..... to .....
Callas	6.00 to 8.00	..... to	6.00 to 8.00	..... to .....
MISCELLANEOUS				
Mignonette	..... to	..... to	..... to	..... to .....
Sweet Peas	.50 to .75	..... to	.40 to .75	.25 to 1.00
Adiantum Cuneatum	..... to 1.00	..... to	.50 to 1.00	.75 to 1.00
" Croweanum	..... to	..... to	..... to 1.50	1.25 to 1.50
" Farleyense	..... to	..... to	..... to	..... to .....
Smilax	12.50 to 15.00	..... to	15.00 to	10.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to	50.00 to 75.00	30.00 to 50.00
" " bunches	..... to	..... to	25.00 to 50.00	.30 to .40
" Sprengeri , " "	25.00 to 35.00	..... to	25.00 to 50.00	.30 to .50
Gardenias	..... to	..... to	1.50 to 2.00	..... to .....
Lilac, bunches	..... to	..... to	..... to	..... to .....
Pæonies	..... to	..... to	4.00 to 6.00	3.00 to 5.00

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HEATING APPARATUS.
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Pierson-Sefton Co., West Side Ave., Jersey City. N J
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Pure Culture Spawn.
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Cattleya Trianæ.

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Hammond Paint & Slug Shot Wks Co., Fishkill-on Hudson, N. Y.

RETAIL FLORISTS.
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John Young, 51 W28th St., New York.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses. Killarney.

SALVIA SPLENDENS.
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Cineraria and Primulas.
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Conrad Appel, Darmstadt, Germany. Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SLUG SHOT.
Hammond's Paint & Slug Shot Works,
Fishkill-on-Hudson, N. Y.

SPRAYING ENGINES
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VENTILATING APPARATUS.
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Lord & Burnham Co., Irvington-on-Hudson, N. Y
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The Chicago Lifter.
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WHOLESALE FLORISTS.

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George A. Sutherland Co., 84 Hawley St., Boston.
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Peter Reinberg, 51 Wabash Av., Chicago.
Wieland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

New York.
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Bonnot Bros., 55–57 West 26th St., New York
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Alex. J. Guttman, 52 West 29th St.
Jas. A. Hammond, 113 West 30th St., New York
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55–57 W. 26th St., New York
Moore, Hentz & Nash, 55 West 26th St., New York
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612–18 Ludlow St., Philadelphia, Pa
Phila. Cut FlowerCo., 1516–18 Sansom St., Phila., Pa
Ed. Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.
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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

AMERICAN BEAUTY PLANTS.
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CHRYSANTHEMUMS AND ENGLISH IVY.
The F. W. Fletcher Co., Auburndale, Mass.
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CINERARIA AND CHINESE PRIMROSE SEEDS.
Johnson & Stokes, 217–219 Market St., Philadelphia.
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KANSAS CITY FLOWER SHOW.
Louis W. Shouse, Mgr.,
Convention Hall, Kansas City, Mo.
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YOUNG ROSES AND FIELD GROWN CARNATIONS.
J. A. Budlong, 37 & 39 Randolph St., Chicago.
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SALE OF BOILER TUBES

Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3-8 inch to 14 inch.

Boiler Tubes, sizes from 1 3-4 to 8 inch.

50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

Lumber, Garden Hose, Etc.

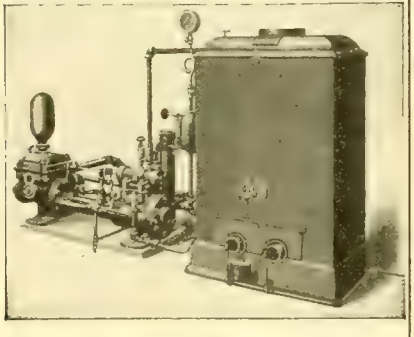
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THE SHIPMAN OIL-BURNING AUTOMATIC STEAM PUMPING OUTFIT



Will do any pumping, under any conditions, portable or stationary. Requires no attention, automatic in fuel consumption, in water feed and in steam delivery. Exhaust steam can be used to temper manure water. Insurance not affected by its use.

CAN YOU AFFORD TO RUN YOUR GREENHOUSES WITHOUT IT?

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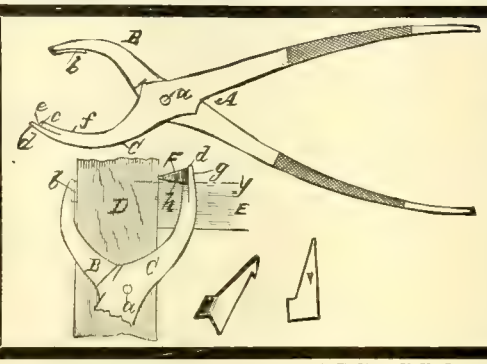
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M'f'r Shipman Automatic Engines

212 Summer St., Boston, Mass.



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THE OLD RELIABLE

Chandler Glazing Point and Pincers

Roofs glazed eighteen years ago are still intact.

Don't glaze until you write for samples and particulars.

300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER

HYDE PARK, MASS.



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PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

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If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

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For Sale — Electros of half-tone illustrations used in this and previous numbers of HORTICULTURE. For prices, etc., address

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LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "Pecky Cypress"

Everything in Pine and Hemlock Building Lumber

WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO

Tel. North 1626 and 1627

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Buy Now and Save Money

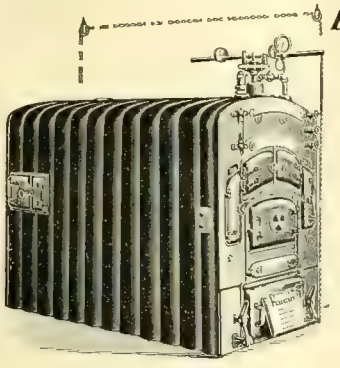
We make a specialty of Greenhouse Glass and can make right prices and shipments.

LOOK OUT FOR THE ADVANCE, it will surely come.

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

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Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit
at Five different Florists' Conventions.

Have a Record of 20 Years - - - Over 25,000 Furman Boilers in Use

They are made in many styles: Round, Sectional, Brick-set,
Asbestos Covered, etc., and in sizes up to 85 horse power.
Costing from $25. to $1,000. each, Net.
Write to-day for valuable Catalogue.
Special Net Wholesale Prices to Florists. Address

The Herendeen Mfg. Co. Dept. H. T. Geneva, N.Y.

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39 Cortlandt St., New York

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E. K. Barr, La Crosse, Wis.

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PIPE New 2-in. Standard full lengths, with couplings, 8¾ cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1½-in., 5¾ cts.; 1¼-in., 3¾ cts.; 1-in., 3 cts.; ¾-in., 2¼-cts Old and new fittings and valves.
STOCKS and DIES New Economy, best made, No. 1 Threads, ½-in ¾-in. 1-in. pipe, $3.00. No. 2 Threads, 1¼-in., 1½-in., 2-in. pipe, $4.00.
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STILLSON WRENCHES New. 18-in., grips ¾-in.-2-in. pipe, $1.65; 24-in., grips ¼-in-2½-in. pipe, $2.40; 36-in., grips ½-in.-3½-in. pipe, $4.75.
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GLASS New. American. 50 sq. ft. to the box. 10x12 B. Single at $1.75. Second-hand 10x12 at $1.40 per box
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12x12 }
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16x16 — 16x18.
16x20 } B. Double at $2.85
16x24 }
Write for our price on Gulf Cypress Building Materials, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

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H. H. SYLVESTER
Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work a Specialty
In writing to advertisers, mention HORTICULTURE

Automatic Greenhouse VENTILATORS
From $25.00 up. Send for circular
The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.

INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.



Scollay Invincible **Boilers**
—FOR—
Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay
23 & 25 MYRTLE AVE.
Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices



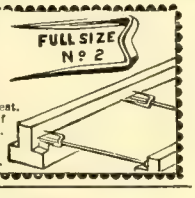
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JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston Mass.

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GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1 000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



SEND FOR
New Green House Catalogue
JUST ISSUED BY
King Construction Co.
North Tonawanda, N.Y. and Toronto, Ont.

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Send your business direct to Washington, saves time, costs less, better service.
My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the
INVENTIVE AGE
illustrated monthly -Eleventh year—terms, $1. a year.
E. G. SIGGERS, 918 F ST., N. W., WASHINGTON, D. C.

THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Milbrook, N. Y.

We Manufacture and Erect Every Type of Greenhouse

THE GALVANIZED "U" BAR TYPE
THE FLAT IRON RAFTER TYPE
THE SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

"PIERSON" BOILERS

For Steam and Water

have more direct fire surface than any other horticultural boiler on the market, and this together with ample flue surface and area is the reason for the economical results obtained.

We will be pleased to tell you more fully as to their merits and also to send you letters of testimonials from those who have used them.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type. Wood and iron frame benches and tables. Hot bed sash and frames. Special hand made greenhouse putty.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.

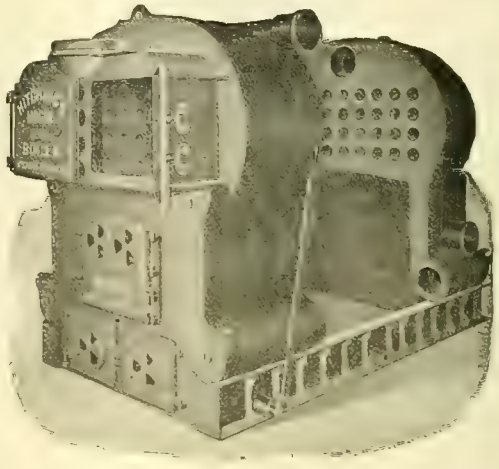


Interior view of "U" Bar greenhouses designed and erected for Mrs. O. Thorne, Milbrook, N. Y.

HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



NEW MOGUL

FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK
233 Mercer Street

BOSTON
819 Tremont Bldg.

Send 4 cents for catalogue



Designed and erected for Judge W. H. MOORE, Prides Crossing, Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

New York Office . . . . St. James Bldg., Broadway and 26th St.
General Office & Works . . . . . Irvington-on-Hudson, N. Y.

HORTICULTURE

Vol. I JUNE 17, 1905 No. 29



ONCIDIUM SPHACELATUM

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

Highest Grades of Lily of the Valley Crowns

Grown Exclusively by Mr. E. NEUBERT, WANDSBEK, near HAMBURG

"SUPREMACY,"	Very best extra quality EARLY Berlin Pips	Ask for our special Quotations. F. O. B. Steamer Hamburg. Packing free.
"MULTIBELL,"	Extra Selected " " " "	For Delivery after November 1st, 1905
"BEROLINA,"	Fine " " " "	
"ALL SEASON,"	Extra " LATE Hamburg (Cold Storage)	Each case contains 2,500 Pips
"POLARIS,"	Fine " " " "	

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CHOICE SELECTED TREE SEEDS FOR FALL DELIVERY. Apply for special prices. F.O.B. Havre, France. Packing extra

Apple, Pear, Mahaleb, Mazzard, Myrobolan Seeds, New Crop

RAFFIA: new Importation for Delivery after June 20th. Apply for special prices. F.O.B. Cars, N. Y.

AUG. RHOTERT, Importer, 26 Barclay St., New York

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—FOR—
KILLARNEY

SIEBRECHT & SON

Rose Hill Nurseries New Rochelle, N.Y.

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	2½-in per 100	2½-in per 1000	3 and 3½-in
Am. Beauties	$5.00	$45.00	$7.00 & $8.00
Chatenay	4.00	30.00	5.00
Bridesmaids, Brides	4.00	35.00	5.00
Gates	3.00	30.00	5.50
Sunrise	4.00	35.00	5.00
Perles			5.00

CUT BACK BENCHED PLANTS

	Per 100	Per 1000
Beauties	$5.00	$40.00
Maids, Gates, Perles, Meteor, Chatenay, Brides	2.50	22.00

Price list of Mums mailed on application.
Headquarters for finest Cut Roses, Carnations and other Cut Flowers, Harrisii and Valley all the year round.

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COLD STORAGE
Lily of the Valley

Large Strong Selected Pips in boxes of 2500 each

WM. HAGEMANN & CO.

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Dwarf Trees and Miniature Plants in fancy Japanese Pots, etc. etc.

HINODE FLORIST CO.

5th Street, Woodside, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

The Best New Plant of the Year!

Nephrolepis Piersoni Elegantissima

PRICES: — 2¼-inch pots, $9.00 per doz; 50 plants at 60c each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each 5-inch pots $18.00 per dozen; 6-inch pots, $24.00 per dozen; 8-inch pots, $36.00 per dozen; 10-inch pots, $60.00 per dozen.

F. R. PIERSON CO.

Tarrytown-on-Hudson NEW YORK

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Gardenia VEITCHII (TRUE)

All up-to-date Florists are laying in a stock of the above. Choice blooms being always in demand at fancy prices. Extra strong, bushy plants, 4-inch pots, **$6.00 per doz.; $45.00 per 100.** 25 at 100 rate.

Arthur T. Boddington

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HORTICULTURE

VOL. I | JUNE 17, 1905 | NO. 29

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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HALF PAGE	12.00
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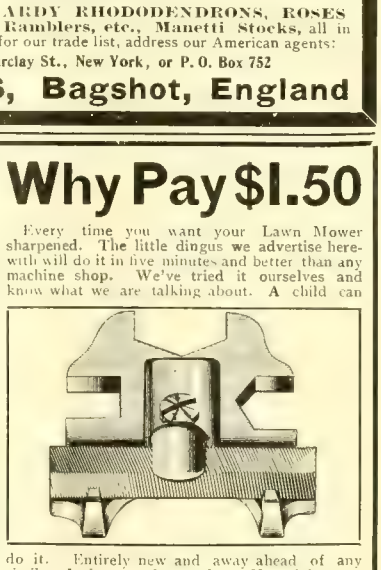
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3 " "	.65	6.15
3½ " "	.78	7.18
4 " "	.88	8.16
4½ " "	1.00	9.20
5 " "	1.12	10.23
5½ " "	1.20	11.27
6 " "	1.30	12.25
6½ " "	1.40	13.28

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	100	1000
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3 " "	.80	7.50
3½ " "	.95	9.00
4 " "	1.10	10.00
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George C. Watson
1614 LUDLOW STREET Philadelphia, Penn.

☞ Remember this factory is NOT in the TRUST and has a free foot.

Oncidium sphacelatum

Our frontispiece illustrates a batch of Oncidium sphacelatum as grown in the collection of Mrs. B. B. Tuttle of Naugatuck, Ct. The group contains twelve plants which carry over one hundred and fifty spikes of bloom, each spike having from one hundred to two hundred flowers. While the flowers of this species are comparatively small, the quantity in which they are produced more than makes up for this, and it deserves to be more generally grown, the long, graceful, arching spikes of golden yellow showing to good advantage in decorations.

The grower of these plants gives the following cultural directions: With me they usually flower during April and May and, by keeping them cool and dry, the flowers are held in good condition during the biggest part of June, a season when other oncidiums are not so plentiful. Another point in their favor is their good behavior under cultivation. I know of no plant that will stand as much abuse and still give fairly good results, as this oncidium.

The plants shown in the group have been on the premises over fourteen years, and have been subjected to almost any kind of treatment until there was not a live root left in the pots. There were some fifty or sixty other orchids which went through the same treatment, but the oncidium mentioned above came out best of the lot; next came Cœlogene cristata, Cypripedium insigne and a few other things. Suffice it to say that the plants were in very poor condition when I took hold of them three years ago. I repotted them at the first opportunity, using as a compost good sound osmunda fiber, fibrous loam and pieces of dried cow manure as picked up in the pasture, in about equal parts. After the plants had taken hold in the compost, water was given freely overhead and at the roots. When the new growths are from five to seven inches high I start to use liquid cow-manure, or any form of manure water about once a week to start with, then after a month or so they will take it twice and three times a week until the new pseudobulbs reach maturity. Then water in any form is gradually withheld until the flower spikes are well up; from that time on, until the flowers open, the plants are watered overhead daily except in cloudy weather, at the same time giving them all the heat possible. If kept too cold at this period the spikes will produce only a few flowers on top and a few small branches at intervals which will hug the stem instead of standing out at right angles as they ought to do. When the flowers are well out the plants will enjoy a little rest by withholding water and keeping them cool. When the new growths, which will soon follow after the flowers are gone, are a few inches long, the heat and amount of water should be increased and both used freely as the growth advances.

My plants are growing in the warmest place I have, where the night temperature in winter is from 58° to 62°, and in summer from 62° to 70° according to the weather. Air is given whenever possible and as the house has ground glass, no shading is used until about the last week in May, this being removed again the latter part of September. These orchids will grow under any condition, but to have them good they want good care, that is to say plenty light and fresh air, plenty to drink and eat when growing and lots of heat and moisture as the flower-spikes develop, then a short rest and, last but not least, good drainage when potting.

M. J. Pope

The Rhododendron Question

I was very much interested in your notes on hardy rhododendrons, and agree with Mr. Hatfield who says no rhododendrons are thoroughly hardy. Speaking of the English and Belgian varieties, it is a fact some are hardier than others, and among the hardiest some will stand all right with Tom and will die with Jack; it all depends on the situation where they are planted, and an ideal spot for rhododendrons is seldom to be found in landscape-gardening. Shelter, shade, and dampness; and when those three factors cannot be found together, and one wants to grow rhododendrons, he has to find out all sorts of artificial tricks to succeed. That is what we had to do.

We have at present about 800 feet by an average of 20 of rhododendron borders, all a mass of flower, by the hundred on some bushes, and the foliage as healthy as can be, nearly all English varieties. Our plants are all big, imported ones, and we used to have every year the trouble everybody has; in the winter of 1899–1900, we lost nearly all our best varieties. We used to build high storm fences on north and west side; east and south were shaded. The soil was covered with a big layer of leaves, with no result. There was a large expense every year to replace the dead ones and an unsightly mass of burned plants in the spring when they ought to be a show.

After trying everything we came to the conclusion a radical step should be taken. The last of November we lift all our plants and dig where they stood, trenches three feet deep, ten feet wide, and as long as required. All the plants are heeled at the bottom of the trench in as nearly as possible a horizontal position, then packed and covered with leaves with a little hay on top to prevent their blowing away.

The projecting branches are kept down with pieces of board and a little storm fence is built on the north side. There are over one thousand plants of all sizes handled that way. We have done this for three years and have never lost one plant of the tenderest varieties. In lifting the plants every year we find that we have good, healthy balls of fine feeding roots, short, regular growth, with more flower buds, and in replanting in the spring it is easy to give new and more space if needed, and assort them anew.

You may say, Mr. Editor, that this is too much work; but it is work that pays well. With this way of protection, rhododendrons can be successfully grown in any place, either the most exposed or in full sun if thoroughly watered during dry season. In good sheltered places some will stand the winter undisturbed if well-shaded during winter by natural or artificial means, and the soil is covered with a good layer of turf. Among the hardiest that suffered the least during all our experience are all the Flushing hybrids with maximum and Catawbiense; these require little shelter. In the English varieties are Mme. Carvalho, Boule de Neige, Candidissima, Mrs. John Clutton and maximum Wellesianum, white; Everestianum, Bluebell and Wauban, blush and rosy lilac; Picturatum, Hannibal, James Nesmyth and Scipio, pink; Blandianum, James Bateman, Henrietta Sargent, James McIntosh, Lady Armstrong, Maxwell T. Masters, Mrs. C. S. Sargent, Mirandum and Norma, red; Atrosanguineum, Bacchus, Charles Dickens, C. S. Sargent, H. H. Hunnewell, T. W. Godman, Kettledrum, Mrs. Millner and Mrs. Shuttleworth, dark red; Mrs. H. Ingersoll, King of Purples, and Silvio, lilac and purple; Caractacus, Guido, Hamlet, Old Port, Ralph Sanders, Sephton and Sir Thomas Sebright, dark purple and crimson.



Stamford, Conn.

Calceolaria rugosa

In writing of those useful plants my memory is carried back to apprenticeship days, when they were so much in vogue for bedding-out purposes. I can recall the splendid effects they produced in beds of self-colors, appropriately edged with material that blended suitably with such colors. Sometimes the self-yellows were edged with the dark maroon varieties and vice versa. The situation best calculated to sustain their vitality and therefore their floral display is a moist and partially shaded position, such as tuberous begonias like to revel in. Splendid results were not wanting in the full, open sunshine, although they are somewhat bulkier in such positions, especially if the soil was light and inclined to be sandy.

My purpose, however, at this time in dealing with the above is less of the reminiscent, and more of the practical, every-day conditions, as applied to our own times and geographical environments. While they are not to be considered as being amenable to our hot climatic conditions as bedding subjects, they are, on the other hand, easily handled, to take rank with our most useful plants for greenhouse or conservatory decoration, and none is more likely to please in this direction than the variety C. rugosa Golden Gem. Its tiny, clear deep-canary-yellow flowers are exceedingly charming. In a shaded, cool position it remains in perfection for an incredibly long time, few flowering subjects being comparable with it in this regard, excepting the orchid itself. Their culture is very simple, requiring a cool and somewhat moist temperature to grow them well and free from greenfly, and as near to the glass as can be had.

The general *modus operandi*, as practised by the largest number of cultivators, is starting cutting, as stout as procurable, any time in August, the earlier the better; inserting the same in an equal quantity of leafmould and clean, sharp sand, well mixed, in pots or pans to suit the notions of each respective operator. I personally found the 5-inch pot as good a receptacle as any. Cold frames are the best place to strick them in at that season of the year, and should be heavily shaded with removable shades during hot, sunny days; they can be thus kept close with little or no air. Frequent gentle sprayings are very essential on warm and bright days; the woodwork of the frame should be more copiously syringed. Excessive moisture, however, in the frame must be diligently guarded against, and should any be manifest, airing must be attended to. Cuttings carefully attended to as above will take root in a comparatively short time; given the proper after care, a single such cutting will produce an elegant plant by June of the following year, suitable for a 7- or 8-inch pot. The former size and sizes I found the most serviceable for dwelling-house decoration.

It is customary to keep the plants after flowering, long enough to procure the cuttings for the ensuing year and then dump the old stock-plants out, the idea being prevalent through long usage that they are at their journey's end. The happy thought of my successor in planting a few of those old stock-plants out and lifting them again in the fall has demonstrated otherwise, and shows to what development this calceolaria can attain under such mode of treatment. Those who were lucky enough to see two of the specimens of plants that were treated thus, shown at our late rhododendron show, will concur with me, I think, in estimating them as grand.

Let us tell those that have not seen them — for that is our purpose — what huge specimens they were, over two and one-half feet in diameter and finely flowered. This, we hope, may stimulate a spirit of emulation; as for those who did see them, there could not be a better stimulating agency than the plants themselves.



Lobelia tennior

Foreign horticultural journals have of late years devoted much space to a lobelia, which has been presented under the name of Lobelia tennior and of which many glowing articles have been written. After an example furnished by Mr. Charles Bruggeman, florist at Villebrauch-Sur-Mer, Alpes-Maritimes, the colored plate of the plant, with its beautiful cobalt flowers, has been shown in the *Revue Horticole*. To people who are acquainted with herbaceous plants and have followed the evolutions of culture, Lobelia tennior is an old acquaintance under another name. In reality, Lobelia tennior was introduced into cultivation about half a century ago under the name of Lobelia ramosa, being first introduced in England in the year 1835, from whence it was carried to France. The colored plate referred to was reproduced from the Vilmorin Album, published in 1851. The sample in the Herbarium Gaillard and those at the Herbarium Verlat were collected in 1860 at the Cultures of Vilmorin, Andrieux & Co., at Verrieres, where at the time already existed a dwarf variety, since lost. This lobelia has not ceased to be in cultivation in France since its introduction. It has produced the dwarf varieties with blue, white, and rose-colored flowers, which were cultivated and mentioned in the catalogues of Vilmorin as varieties of Lobelia ramosa. In England it seemed to have disappeared from general culture and to have been re-introduced during the last few years, taking the name Lobelia tennior after the laws of the correct nomenclature; while in France the name Lobelia ramosa still remained in use. During this time a plant has received honors from the illustrated botanical journals under the name of Lobelia heterophilla and which has been classified by the London Horticultural Society under the name of Lobelia coronopifolia, Linn. which has large blue gentiana flowers and was easily confounded with the other. It is possible that this later introduction in England may prove the same as the variety long cultivated in France, which may have been modified by the influences of cultivation, as the English state that it has a trailing habit, while the French variety has an erect, compact stand. It is certain that the two plants do not differ from each other as varieties of the same species. However, the English type may have been introduced previously from Australia, its native home.

It seems that this Lobelia tennior has not been so well appreciated in France for its merits as a bedding plant. It has been judged a novelty for the reason that it has been so little known by the public. There is no doubt in our minds that this lobelia has a grand future before it as a bedding plant. From the seed which I secured from Mr. Lemoine of Nancy, I have several hundred plants now ready to plant out. The plant attains the height of one foot and makes a grand effect. R. & J. Farquhar & Co., of Boston, are the only introducers this year of this very beautiful and useful lobelia, which will be more fully described by lovers of bedding plants and will receive all due merits during the present season.

J. F. Rowe.

Rose Diseases

1. ANTHRACNOSE. (GLŒOSPORIUM ROSÆ)

Anthracnose causes the leaves to drop off. They turn yellow, especially those on the tips of the canes. The fungus runs throughout the entire plant, interfering with its functions to such an extent that it is killed. The fungus is similar to the Glœosporium on the raspberry and is probably identical. The plant is generally attacked when young, the spores gaining entrance through the surface of tender canes and leaves, germinating on the surface. The characteristics are pimply spots, evenly distributed, of a pinkish color, and made up of a myriad of spores.

Treatment. Spray with Bordeaux mixture or Ammoniacal Carbonate of Copper. Cut and burn diseased portions.

2. LEAF SPOT OF THE ROSE. (CERCOSPORA ROSÆCOLA)

As a rule this disease attacks plants out-of-doors only, but it may get into the house. It has the same external characters as black-spot, but is caused by a different fungus. It appears at first as black or reddish black spots (the red being at the edges), and the whole sprinkled with a white powder — the spores. The mycelium runs inside the leaves.

Treatment. Cut back severely all diseased parts and burn. Harrow ground and give plenty of light and air.

3. BLACK SPOT. (ACTINONEMA ROSÆ)

On out-door plants the black-spot occurs in spring or summer, on in-door ones at most any time. Small spots appear at first, gradually increasing in size until one-half inch in diameter. These spots are roundish, irregular black places, fringed at the edges, and often bounded with yellow. Later in the season the spots grow light-colored and dry, and finally reappear on the lower side. All roses are subject to the black spot, particularly the moss roses, and especially if planted in the open ground. In the fall affected leaves turn yellow first, characteristic leaves having a brown base and a yellow tip. These fall prematurely.

Treatment. Burn affected leaves, as the fungus lives over winter on these, and spray with some fungicide before the bush starts growing.

4. ROSE RUST. (PHRAGMIDIUM MUCRONATUM)

This disease appears on out-door plants early in summer. It attacks leaves, stems, and petioles. The leaves become twisted and distorted from the mycelium which runs among the tissues. This mycelium breaks through the epidermis in spots, through which the spores are disseminated. The spots vary in size and shape, but are of a uniform lemon-yellow color. These spots produce summer spores, the color being due to the vast numbers of spores that are present. Later the same spots produce brick-red spores, which survive the fall. On the lower side of the leaf hair-like tufts appear, which are the winter spores.

Treatment. Burn affected branches as soon as the disease appears, doing it early enough to prevent the spots from breaking, if possible. Burn all dead leaves in the fall. Spray in early spring before the plant starts growing, with a solution of Copper Sulphate and Carbonate of Copper.

R. L. Adams.

(To be continued.)

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The terrible menace of the voracious moths which have already ruined so much woodland in eastern Massachusetts demands that earnest study and effort should not be spared in any direction which promises relief. The report by Prof. C. S. Sargent, on another page of this paper concerning the success in combatting the pests with arsenical sprays, will be good news for many of our readers.

It has been observed by those who have handled pæonies cut before the flower had expanded and allowed to open in water or in cold storage, that, although the bloom can be depended on to expand, it will produce a flower much inferior in size and symmetry to those allowed to develop fully on the plant. This is unfortunate for the florist, as the cost of packing and shipping full-blown pæonies is out of all proportion to their market value.

In many cases the unusual spectacle is seen in gardens, this season, of rhododendrons well furnished with perfect heads of bloom, but completely denuded of foliage. The early, rather dry, and uniformly cold fall of 1904 may be, in a considerable degree, responsible for this peculiarity, the buds having gone through the winter in a very small state and well provided with close covering. There is an old and well-grounded belief that the the plants are weakened if allowed to flower under these conditions, but this is not accepted as sound by some modern gardeners whose opinions are accorded great weight.

The abandonment of the work of extermination of the gypsy moth by the State of Massachusetts five years ago was unwise, to say the least. The present horrible condition existing in the State's woodlands and on neighboring property presents overwhelming testimony to the folly and incapacity of the legislature of 1900, when it gave up the fight and withdrew its support from the Board of Agriculture, after a million dollars had been spent and final extermination of the pest was in sight. Abuses there may have been and perhaps extravagance, but this was not a sufficient justification for the sacrifice of all the results of previous effort and the cessation of all restrictive work.

There seems to be a generally prevalent impression that, while spraying with arsenical poisons is efficacious, the best method of dealing with the brown-tail moth is with the pruning shears when the trees are bare of leaves. If it were possible to see and remove every nest this might be all right, although more expensive. But one trip through the infested districts of the Middlesex Fells at the present time would quickly show why this nest clipping can never be a success alone, for there are to be seen vast numbers of winter nests on the scrub and other oaks which retain their foliage all through the winter, thus completely hiding the nests until late in the spring when the caterpillars are already abroad in quest of food. One big advantage of the spraying process is that it does double duty, killing both brown-tail and gypsy moths at the same application. And there are myriads of other leaf-eaters of lesser notoriety that are liable to have their career cut short likewise.

The columns of HORTICULTURE, in every issue, bear testimony to unprecedented activity in club and society work. The horticultural profession, all over the country, seems to have awakened to the great advantage of coöperative effort and the benefits, general and specific, that come from organized association. Within the next few days no less than four national organizations hold conventions — the Nurserymens', Seedsmen's, and Park Superintendents' Associations, and the Pæony Society. The Wholesale Seedsmen's League also holds forth in New York this week. Clubs and societies having monthly or weekly sessions show pronounced activity on all sides. There is no question of the duty a man owes to himself and to whatever branch of industry he may follow, to unite with the organization devoted to the interests of his avocation, and it is unquestionably true that whatever unselfish labor he may perform for the common good will eventually conduce to his own individual welfare. To generous coöperation, joint sympathy, and free interchange of experience we owe all the advancement we have made from haphazard cultural and trade methods towards scientific, rational, and productive exactness. The man who holds aloof from these elevating agencies not only loses the direct benefits that come from contact with his fellows but forfeits the consciousness of having done what he could to help towards the general good.

What They Say of Us

"The love of praise, howe'er concealed by art
Reigns more or less, and glows in every heart."

We appreciate your magazine very much. — B. B. Co.

All sold out. Cancel ad. and send bill. J. E. FELTHOUSEN, Schenectady, N. Y.

Kindly discontinue our advertisement after the issue of this week; we are entirely sold out of Wellesley plants. — WABAN ROSE CONSERVATORIES.

I am very much pleased with the paper. I think it fills a real need among horticultural publications and I hope it will be a permanent success. — S. A. E.

Enclosed please find $1 for my subscription. I am very much pleased with HORTICULTURE as it is always full of interesting articles. May success be always with it. — A. F.

N. CAMBRIDGE, MASS., *May* 31, 1905.
Gentlemen: — Please take my ad. out of HORTICULTURE. Lilies are all sold.
BOCK, *the Florist.*
2394 Massachusetts ave.

I am all sold out of stock as advertised, so will say that the two insertions will be sufficient at present. Yours,
J. W. HOWARD.
SOMERVILLE, MASS.

Thanks to HORTICULTURE, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico, and Cuba, which goes far to prove the value of HORTICULTURE as an advertising medium. We are very pleased with the results of our advertising in HORTICULTURE, and wish every success to the paper and editor. Respectfully,
A. LEUTHY & CO.
JUNE 12, 1905.

PHILADELPHIA FACTS AND FANCIES

Ring the joy bells. Walter Yates is the latest. We have been wondering, these past three weeks, what kept him away from the bowling tournament. He will reside on his return from the honeymoon at 4244 Devon street, Mt. Airy. Next door to him is the home of our legal luminary, D. C. Donoghue. Beyond that is the residence of a Baptist minister. I hope Walter may need the services of the latter a great deal oftener than that of the former, and we think the world of Mr. Donoghue, too!

Louis J. Reuter, late of Westerly, R. I., is the latest to join the ranks of the craft in the Quaker City. He has rented Sam Bunting's place at 58th and Elmwood avenues. Roses will be his main crop, only three of the houses being devoted to carnations. We bid him welcome among us and wish him the best of luck.

Assignee John Burton has called a meeting of those interested in the Craig matter for June 15th, when it is understood that if Mr. Craig has succeeded in his expectations, a release will be ordered and the property transferred from the assignee to the new company as soon as the legal formalities can be complied with. This call is in accordance with a resolution passed at last meeting of creditors, May 15th.

The descendants of John Bartram held their annual meeting and reunion at Bartram's Gardens, June 10th.

Personal

W. S. Lee and family of New York, arrived at Hamburg on the *Pretoria*, May 26.

Alfred Dimmock of Sander & Sons, London, is booked to sail for home on the *Lucania*, on Saturday, June 17.

Jos. Foerster of Chicago, manager of George Reinberg's wholesale store, was married June 8, to Miss Myrtle M. Riggs.

Visitors in New York City during the past week included William O'Connor and wife, Providence, R. I., Mr. Miller, Dallas, Texas.

William Hughes of Detroit, Mich., is now in the employ of J. A. Budlong, Chicago, filling the position formerly held by Mons Olson.

Charles H. Johnson, florist at the Vermont Experiment station, was married at Plattsburg, to Miss Winnifred G. Johnson, on June 7.

Joseph Fenrich and Miss Mollie Le Moult, daughter of Adolph LeMoult of New York, were married at Tremont on Thursday, June 8.

George M. Stumpp, wife and daughter, and J. M. Keller, wife and daughters, sailed on S. S. *Friedrich der Grosse*, on Thursday, June 15.

President Neubeck of the Buffalo Florists' Club, who has been sick, is reported as improving, and may be seen soon at his accustomed post.

Paul Kaese and wife, son-in-law and daughter of William Hagemann, New York, sailed for London on the *Kaiser Wilhelm der Grosse*, on Tuesday, June 6.

George B. Nash of the New York Botanical Garden, will make another exploring trip to Hayti, starting from New York on July 5, and carrying tents and complete outfit for a ten weeks stay in the mountains.

"Uncle Dick" Richards, the venerable rosarian of Brookline, Mass., observed the ninety-fourth anniversary of his birth, on June 10. The old gentleman has failed in health considerably during the past year.

THE DAWN OF THE NEWPORT SEASON

It cannot be said that so far the business horizon is over-bright, but several of the elements that will form this year's Newport sun are new, vigorous, and ambitious, and the desire of the newer elements to outshine the old may be the means of a more abundant harvest.

Newport florists are not entirely discouraged at the announcement that the British squadron would not put in here as was expected. Several of the newcomers have indicated their intention of entertaining lavishly, and several other old-timers, who for several years have been absent, are this summer to occupy their houses.

In the greenhouses of Mr. L. Beekman there are some splendid specimens of Nephrolepis elegantissima. From what can be learned from the grower of the plants in question, and from others in Newport, this variety is not a whit more difficult of cultivation than other varieties, while in rapidity of growth it equals any of them.

Killarney roses have been planted extensively in several places in Newport this spring.

After Adjournment

The destruction by fire of the big Exposition Building at Milwaukee where was held the S. A. F. convention of 1903, reminds us that at least three buildings so used by the S. A. F. have been burnt down, Philadelphia and Asheville being the other two. Possibly there are others.

B. B. Chandler tells us that he has received a number of appreciative inquiries from greenhouse owners who are glad to know that the Chandler glazing points are on the market again. Mr. Chandler has made improvements so that the old inconvenience of rights and lefts is neutralized. See his advertisement.

The question agitating the correspondents of one of our English contemporaries, "Are commercial travelers a nuisance?" is as funny as some of the inquiries that slip into the "question box" at club meetings. The topic has amusing possibilities and should make a prolific subject for the "bemasked scribbler." To lampoon openly these amiable and enterprising traveling representatives in this country would call for a display of rare courage. May their tribe increase!

Among the awards at the great Temple Show in London we are pleased to see that beautiful production of our Massachusetts rosarian, M. H. Walsh's Lady Gay, honored with an award of merit. "It is quite one of the best things among climbing roses" was the judges' comment. A fine illustration of this rose is given in the *Gardeners' Chronicle* for June 3. Two other American varieties that received favorable mention were The Farquhar and Debutante, the first one of Jackson Dawson's seedlings and the latter one of M. H. Walsh's.

The *Journal of Horticulture*, London, draws from the overcrowded "Situations Wanted" columns of the horticultural papers that too many gardeners are being trained in England and attributes the over-supply possibly to the substitution of the bothy system for the old apprentice system. We have been accustomed to regard the British trained gardener as a man well drilled in the fundamentals of gardening craft and it has been common to compare our rapidly fledged native gardener with the English brand much to the disadvantage of the former, hence we are interested and somewhat surprised to read in the *Journal of Horticulture* that in Great Britain "Many gardeners are made by a process of mere drift. That is to say, a country lad with no particular horticultural aspirations gets a job in a gentlemen's garden simply as a means of employment. He jogs on for a time until he gets too big to be called a boy, and then the vacancy comes for a journeyman in the bothy, which he duly fills, and eventually helps to swell the already overcrowded ranks of gardeners. It is quite likely that many youths who are made gardeners in this way would have been just as content to remain as laborers, and in some cases they would be just as well off. By the growth of the bothy system there is a tendency to employ young men as under gardeners who perform work that could be equally as well done by laborers, and the latter would never be competitors for headships, as the former are sure to be."

We don't have bothies here, but otherwise the process of gardener making across the water and on this side seems to be about "as alike as two peas."

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY

The prize schedule for the June exhibition is as follows:

CLASS 1. Gateway decoration arranged to show one side of a gateway in a space of 12×8 feet, coniferous plants excluded: 1st, Silver Cup, value $50, offered by Miss Alice Keteltas; 2d, $25; 3d, $15.

CLASS 2. Group of palms and foliage plants tastefully arranged to cover a space of 100 sq. ft.: 1st, $25, offered by Mr. A. G. Vanderbilt; 2d, $15; 3d, $10.

CLASS 3. Groups of palms, ferns, and flowering plants to cover a space of 100 sq. ft.: 1st, $25, offered by Mr. Wm. Watts Sherman.

CLASS 4. Table of decorative foliage plants. Table to be 3×9 ft. 1st, Silver Cup offered by Mrs. Perry Belmont; 2d, $15; 3d, $10.

CLASS 5. Display of orchids, plants, 1st, $10; 2d, $5.

CLASS 6. Specimen areca, 1st, $3; 2d, $2; 3d, $1.

CLASS 7. Specimen kentia, 1st, $3; 2d, $2; 3d, $1.

CLASS 8. Specimen any other species palm, 1st, $3; 2d, $2; 3d, $1.

CLASS 9. Specimen fern, 1st, $5; 2d, $3; 3d, $2.

CLASS 10. Collection of outdoor grown roses, named varieties, exhibited by private gardeners of Newport. Premiums offered by Miss Fanny Foster, 1st, $25; 2d, $15; 3d, $10.

CLASS 11. Display of outdoor roses tastefully arranged on a table 6×3 ft., 1st, $15; 2d, $10; 3d, $5.

CLASS 12. Fancy basket of roses and rose foliage, 1st, $8; 2d, $5; 3d, $3.

CLASS 13. Vase 25 American Beauty roses, 1st, $7; 2d, $5; 3d, $3.

CLASS 14. 12 H. P. roses, 12 varieties, 1st, $3; 2d, $2; 3d, $1.

CLASS 15. 12 H. P. roses, 6 varieties, 1st, $3; 2d, $2; 3d, $1.

CLASS 16. 12 H. P. roses, 1 variety, red, 1st, $3; 2d, $2; 3d $1.

CLASS 17. 12 H. P. roses, 1 variety, pink, 1st, $3; 2d, $2; 3d, $1.

CLASS 18. 12 H. P. roses, 1 variety, white or blush white, 1st, $3; 2d, $2; 3d, $1.

CLASS 19. 12 H. P. roses, any varieties, 1st, $3; 2d, $2; 3d, $1.

CLASS 20. 25 H. T. or tea scented roses, 1st, $5; 2d, $3; 3d, $2.

CLASS 21. Basket of roses, open to gardeners' assistants only, 1st, $5; 2d, $2; 3d, $1.

CLASS 22. 25 gardenia blooms, premiums offered by Mr. T. G. Owen, 1st, $5; 2d, $3; 3d, $2.

CLASS 23. Collection of herbaceous blooms, named varieties, 1st, $5; 2d, $3; 3d, $2.

CLASS 24. Bunch black grapes, 1st, $4; 2d, $2; 3d, $1.

CLASS 25. Bunch white grapes, 1st, $4; 2d, $2; 3d, $1.

CLASS 26. 6 nectarines, 1st, $3; 2d, $2; 3d, $1.

CLASS 27. 6 peaches, 1st, $3; 2d, $2; 3d, $1.

CLASS 28. 12 tomatoes, 1st, $2; 2d, $1.

CLASS 29. Strawberries, Gandy, 25 berries, 1st, $2; 2d, $1.

CLASS 30. Strawberries, Marshall, 25 berries, 1st, $2; 2d, $1.

CLASS 31. Strawberries, Nic Ohmer, 25 berries, 1st, $2; 2d, $1.

CLASS 32. Strawberries, Brandywine, 25 berries, 1st, $2; 2d, $1.

CLASS 33. Strawberries, Sharpless, 25 berries, 1st, $2; 2d, $1.

CLASS 34. Strawberries, Collection of not less than four varieties, 25 berries of each variety, 1st, $5; 2d, $3.

CLASS 35. 2 cucumbers, 1st, $1; 2d, 50 cents.

CLASS 36. Collection of vegetables, 1st, $10; 2d, $7; 3d, $5.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The Central Passenger Association, which controls the territory east of and including Chicago and St. Louis, has authorized a rate of one and one-third fare on certificate plan, in coöperation with rate announced by Trunk Line Association, for persons attending the S. A. F. convention at Washington, D. C., August 15–18, 1905.

DEPARTMENT OF PLANT REGISTRATION

The Conard & Jones Company, West Grove, Pa., submit for registration Rose American Pillar. Described as a plant of climbing habit; growth most vigorous; foliage very large and glossy; flower, clear, rosy pink, single, three inches in diameter, produced in enormous clusters and great abundance; very durable and fragrant.

Also, Rose Birdie Blye. Helene × Bon Silene. Described as an ever-blooming climber, producing clusters of blooms during the whole growing season; flowers, large, very double; color, beautiful rosy carmine and of delightful fragrance.

WM. J. STEWART, *Secretary.*

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS

The preliminary program of the eighth annual convention to be held at Buffalo, N. Y., on June 28, 29, 30, 1905, has been arranged as follows:

WEDNESDAY, JUNE 28

10 A. M. Business meeting at the Historical Building, Delaware Park.

1 P. M. Luncheon at Buffet in Park.

2 P. M. Drive about the Park System. (Evening — pleasure, or discussion at hotel, as desired.)

THURSDAY, JUNE 29

9.30 A. M. Train to Niagara Falls. Drive through the State Reservation under the guidance of Mr. Perry, the Superintendent.

2 P. M. Transfer to Canadian side and visit Queen Victoria Park under the guidance of Mr. Wilson, the Superintendent.

4 P. M. Trolley ride down and up the rapids and return to Buffalo.

FRIDAY, JUNE 30

9 A. M. Trip to Botanical Gardens under direction of Mr. Cowell, and afternoon for sight-seeing or pleasure.

SATURDAY, JUNE 31

Train at 8.30 A. M., to Rochester and visit the parks of that city. (To be arranged for, if desired, at Convention.)

PENNSYLVANIA HORTICULTURAL SOCIETY

Rose Day at Horticultural Hall brought out a fair amount of exhibits from the nearby gentlemen's places. Wm. Robertson, gardener to Jno. W. Pepper, took first for six blooms each in the hybrid remontant class, Jno. McLeary, gardener for Mrs. R. J. C. Walker, second, and Wm. Kleinhanz, gardener for P. A. B. Widener, third. In hybrid teas Mr. Kleinhanz took first and Mr. Robertson second.

Dr. Robert G. Huey gave an interesting talk on the origin and history of the rose, and showed blooms of what he considered the best six of about one hundred of the newer European importations for outdoor purposes. They were — Frau Karl Druschki, Mrs. George Dickson, Paul's Early Blush, Oscar Cordel, Ard Rover, and President Willermoz. The doctor gave cogent reasons why those six had been singled out and I hope to send HORTICULTURE the details at an early date.

HARTFORD FLORISTS' CLUB

The regular meeting of this club was held on Friday evening, 9th inst., with a large attendance of members. Mr. Wirth, chairman of committee on window boxes, submitted an able and instructive report which we will publish later. The report shows how thoroughly the committee performed their task and they were awarded a unanimous vote of thanks.

It was the sense of the meeting that, if a matter so important were thoroughly taken up by the florists' clubs and horticultural societies of the country as a whole, a permanent impetus would be given to this most important subject, and, incidentally, the commercial man would annually add many shekels to his bank account. "'Tis a great and good subject, gentlemen; push it along."

Secretary Ruedlinger read an interesting paper on, "Insect enemies and their antidotes, which interested our forefathers." The secretary is a recognized authority on all fungii and insect pests, and he easily added to his reputation when he minutely described the various brands of "Bey" and their preventives, which have been in vogue from two hundred and fifty years ago down to the present day. He received a hearty vote of thanks.

Arrangements were made for the reception of the executive committee of the Ameriacn Rose Society on the 19th inst.

On account of the impending vacation season, the club adjourned as a body, until the first Friday in September.

MONTREAL GARDENERS' AND FLORISTS' CLUB

At the monthly meeting of the Montreal Gardeners' and Florists' Club on June 5, President Joseph Bennett gave an account of his recent trip to Boston. The great improvements in the city during the last twenty years were noted, the immense number of residential houses, standing in their own grounds, providing a fine field for the jobbing gardener. The excellent system of public parks received high praise. The florists' stores came in for some little criticism with regard to decorations and general order. In the nurseries the general willingness to give information was commented on. Peter Fisher's new carnation, Fairmaid × Enchantress, was regarded as beautiful, an opinion in every way favorable. Montgomery's "rose factory," where the president graduated, was revisited, the fine Beauties which are replanted every other year, being well spoken of. Liberties, too, are exceptionally well handled there. In summing up, Mr. Bennett was of opinion that while the general standard was high, it was no better than Montreal in quality.

The annual picnic of the club is arranged for the 19th of July, and the Convention of Canadian Horticulturists in Montreal, for August 9, 10, 11.

AMERICAN CARNATION SOCIETY

The next annual meeting of this society will be held at Horticultural Hall, Boston, Mass., January 24 and 25, 1906. These dates have been reserved for us, and at this early date there are indications of an unusual interest being taken in this meeting and exhibition.

The preliminary premium list will be issued early in July and will be mailed to all members and any others who may apply. There will be some special features that will be of interest to all carnation growers.

Special premiums and inquiries should be addressed to the secretary.

ALBERT M. HERR, Lancaster, Pa.

NEW YORK FLORISTS' CLUB

The New York Florists' Club observed Ladies' Night on the evening of Monday, June 12. The attendance was not as numerous as it might have been had it not been a very stormy day, but the fair sex was well represented and the occasion was a most enjoyable one for all. The usual business of the club was first attended to, this being the last session until the September meeting. In the meantime the club's "outing" will take place, and from the report of chairman J. Austin Shaw of the outing committee, presented at this time, a big success is assured. The schedule of events and prizes makes an interesting book. Mr. Shaw reported that $200 worth of advertising had been secured for the schedule, and prizes to an equal amount had been contributed by the club's members and friends for the various games. Mr. Langjahr made a gratifying report to the effect that the committee which he represented had succeeded in securing through Commissioner M. S. Kennedy, the rescinding of the rule excluding children under fourteen years of age from the park conservatories in Brooklyn. Cottage Gardens made a splendid display of pæonies. Charles Lenker was also represented by two vases of pæonies and Alex. Guttman contributed a vase of remarkably handsome flowers of carnation Victory. After due recognition had been given these exhibits, President Traendly turned over the management to entertainer J. B. Nugent, and the remainder of the evening was devoted to the strawberry and ice-cream problem, with results highly gratifying, while filling in the gaps with piano solos and singing by various members, Mr. Nugent especially winning great applause in the latter pastime.

NEW YORK FLORISTS' CLUB OUTING

The list of games at the fifth annual outing of the New York Florists' Club is as follows:

Ladies' Bowling Match, fifteen prizes; Baseball Game, married vs. single; Press Bowling Contest; Bowling Match, 12 prizes; Baby Prize, handsomest baby under 2 years of age; Girls' Race, under 6 years; Boys' Race, under 6 years; Girls' Race, under 7 years; Boys' Race, under 7 years; Girls' Race, under 8 years; Boys' Race, under 8 years; Girls' Race, under 10 years; Boys' Race, under 10 years; Girls' Race, under 12 years; Boys' Race, under 12 years; Girls' Race, under 16 years; Boys' Race, under 16 years; Throwing 50lb. Weight; Young Ladies' Race; Married Ladies' Race; Sack Race; Members' Race; Quarter Mile Race; Fat Men's Race, 200 pounds or over; Married Men's Race, over 50 years of age; Potato Race, for ladies. Special Contest, to be announced on the grounds.

Generous premiums have been donated for all the above contests. The date is Wednesday, June 28, 1905. Steamer *Isabel* leaves foot of East Thirty-first street at 9.45 A.M. for Glenwood-on-the-Sound. The arrangements are in the hands of the right people and there will be lots of fun for everybody.

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of the Newport Horticultural Society was held Wednesday evening, President Sullivan in the chair. The attendance was large and the proceedings unusually interesting. The outlook for the June exhibition was shown to be very promising. On account of some unexpected contributions for special premiums, the amounts for several classes were considerably added to, especially for second and third premiums. The consensus of opinion seemed to indicate that hybrid perpetual roses will be about at their best on June 27. Hitherto there appeared to be considerable doubt, but the recent rain and somewhat warmer weather in prospect, warrant the expectation of seeing good roses for the exhibition.

THE HURST AND SON MUSICAL SOCIETY

For a number of years, President M. N. Sherwood of the well-known English nursery firm of Hurst & Son, has maintained in connection with his employees, for the promotion of pleasant social relations, a musical society which has been a signal success from the start.

The seventh season was brought to a successful termination with the annual "House Concert" which took place at the Cripplegate Institute theater on May 2d, when a minstrel entertainment was given by members of the society before a large and appreciative audience. The troupe consisted of some seventeen darkies, the parts of corner-men being capably sustained by Messrs. E. Sherwood and F. Washington, (Tambos); A. Moorcock and W. H. Cross, (Bones); who continually convulsed the audience with their absurd jokes. Mr. W. Jerry's impersonation of "Mr. Johnson" was also a great success. Certain members of the troupe gave songs during the evening, amongst them may be mentioned Mr. A. Cox, whose rendering of "Like stars above" proved very soothing. Mr. A. Moorcock was well applauded after his pretty coon song, "My Starlight Queen," and Mr. W. H. Cross was excellent in his artistic song, "Aint ye comin' out my Juliet," receiving an encore. Mr. E. Sherwood was greeted with prolonged applause for the singing of a coon song of his own composition entitled, "Sally, my only own" (words by Mr. R. Main, a member of the society). Other songs were sung by Messrs T. A. Baldwin, P. Moll, Washington, Vine, Jerry, and G. David, and a tragic recitation by Mr. T. Forster, who not only succeeded in clearing all the niggers off the stage, but was also the recipient of a dead cat, which quickly dismissed him. During the interval refreshments were partaken of, through the generosity of one of the partners. The second half of the entertainment consisted of a scene à la "Cosey Corner Girl," song "The Whistling Coon" by Mr. Percy Moll, and an extremely clever stump speech by Mr. F. Washington. The evening concluded with a screamingly funny sketch entitled, "Wax-ination Gratis." The entire production was under the direction of Mr. F. A. Washington (Hon. Sec.), whose untiring efforts played an important part in making the evening the success it was.

CALIFORNIA STATE FLORAL SOCIETY

The California State Floral Society has decided on holding a fall exhibition in October — "a show of fall flowers that shall excell in variety and arrangement any that has heretofore been held by the society." Circular letters to this effect have been sent out this week to all growers and dealers in the State to govern themselves accordingly. Judging from what I have heard on the side about this, it is likely that a conference will be held within a few days between managing directors of the society and an authorized committee representative of the Pacific Coast Horticultural Association, and that the result will be unity of action between the two in making the show a brilliant success.

NOTES

The Worcester County Horticultural Society at its meeting on Thursday, June 15, gave a special exhibition of pæonies.

The exhibition of the Dutchess County Horticultural Society will be held this year at the new Columbus Institute, Poughkeepsie, N. Y., instead of the State armory as heretofore.

The annual rose show of the Holyoke (Mass.) Horticultural Society will be held at the Unitarian church lecture-rooms on the afternoon and evening of June 30.

NEWS NOTES

A plant storage house belonging to Mrs. E. H. Kingsley at West Gouldsboro, Me., was destroyed by fire on June 5.

The place of Jos. Labo, Joliet, Ill., was totally destroyed by hail, May 30. The storm was the severest that ever visited this section of the country. Chicago Carnation Co. and J. D. Thompson Carnation Co. escaped with a few lights broken. Hartshorne's pæony fields fortunately escaped the storm.

Frank Pelicano, head of the San Francisco plant and cut-flower store bearing his name, is proprietor of a seven-acre calla plantation six miles from the city. The now blooming sight well worth while going to this plantation to see, is the yellow calla, Mrs. Roosevelt, a variety Mr. Pelicano thinks is a stronger grower than either the Elliottiana, or Peutlandi.

It is announced that a donation of $25,000 has been donated to the Brooklyn Institute for the equipment of a botanic garden, for the purpose primarily of affording instruction in botany to the students of public and private schools.

The garden is to be adjacent to the museum building, on the lands reserved by the city for a botanic garden and arboretum. A special committee, headed by former Mayor Charles A. Schieren, has been appointed on plan and scope of the proposed garden.

OBITUARY

James Muldoon, for many years in the employ of Julius Lang, wholesale florist, New York, died on Wednesday, May 31, of locomotor ataxia.

David Smeaton, a well-known florist of Des Moines, Ia., was killed by being thrown from a carriage in which he was riding with his wife in Alberta, Canada, on May 31. He was seventy-three years old.

On May 23d, 1905, at King Road, Walton-on-Thames, Surrey, Eng., Edith Annie, eldest daughter of John and Mary Glass, and widow of James W. Withers, of Jersey City, N. J., aged thirty-five years.

Mrs. R. B. Holmes of the Holmedale Greenhouses, Madison, N. J., died on Saturday, June 10. Mrs. Holmes has been in failing health for some months. The Holmedale Greenhouses have been established twelve or thirteen years and are among the best known of the Madison rose-growing establishments.

MOTH SUPPRESSION IN MASSACHUSETTS

Report of the Committee of the Mass. Society for Promoting Agriculture.

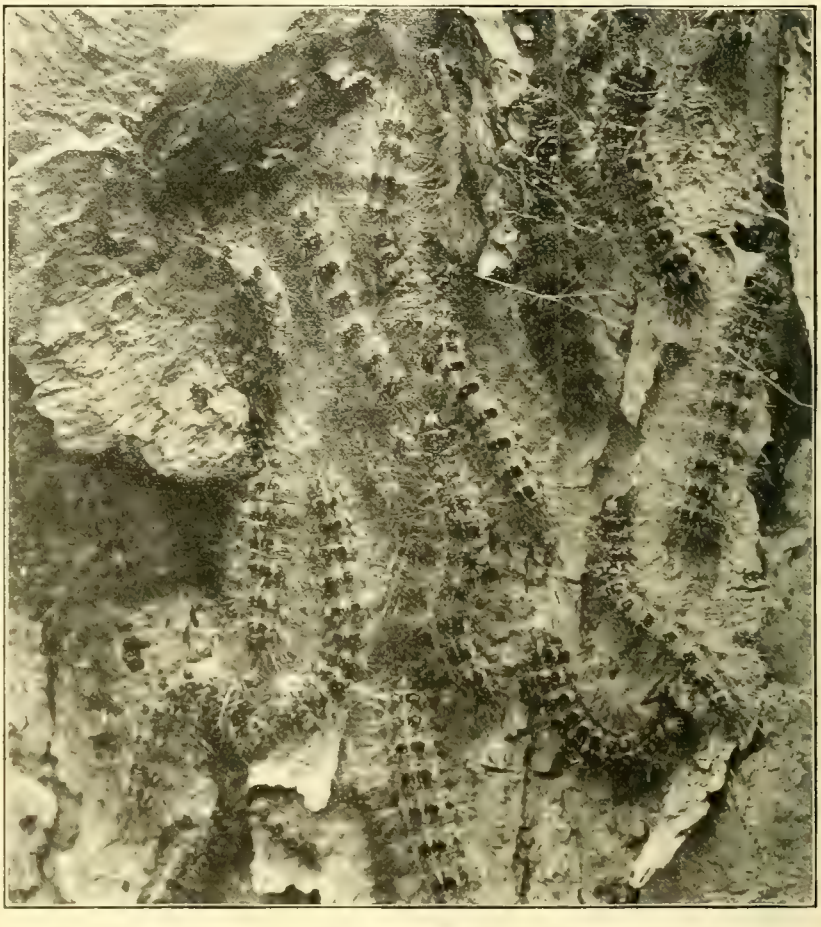
The possibility of killing these moths by poisoning the foliage of the plants on which they feed not having, it appeared, been fully recognized in this State, your Committee arranged in May for a public exhibition of this method of insect destruction on a scale large enough to be conclusive.

The trial was made on May 22 and continued through four days, and on May 31 and June 1 was supplemented by an additional application of poison to prevent invasion from unsprayed woods and trees in the neighborhood. The work was done under the direction of Mr. J. A. Pettigrew, Superintendent of the Boston Park System, whose report on the details of the work with its cost is appended.

The piece of land in Melrose selected for the experiment, 11.4 acres in extent (the area as given by the engineers of the Metropolitan Park Commission), was covered with a growth of white pines, oaks, beeches, apple-trees, willows, and hop hornbeams, and with a dense undergrowth of alders, sumachs, barberries, witch hazel, and seedling trees of several species. All the trees were badly infested with the nests of the brown-tail moth and the egg-clusters of the gypsy moth, and old walls and piles of stone gave safe and convenient shelter for egg-clusters. No work of suppression of any sort had been attempted on this land, which appeared to your Committee to be as badly infested as any piece of land of similar size that could be found in the State.

The difficulty and expense of thoroughly poisoning the foliage on this particular piece of land was increased by the thick growth of trees and shrubs and by the unusual height of many of the trees. Several pines and elms exceed a height of seventy to eighty feet, and could be covered with poison only by the use of a forty to sixty foot ladder, the average size of all the trees being probably much above that of the forest growth in the infested region. Spraying operations were simplified by the fact that every part of the land could be reached by hose from the pump stationed on a highroad, and by the convenient access to water. Setting the height of the trees, their number, and the dense undergrowth against the exceptionable facilities for operating the pump and obtaining a supply of water, the cost of the first four days' work ($21.87 per acre), exclusive of the cost of the machine and hose, can perhaps be safely taken as a fair average cost per acre of thoroughly spraying woods in any part of the infested region. More powerful machinery, better adapted to spraying on a large scale, and some cheaper form of poison may, however, be expected to reduce the cost of the operation.

A careful inspection of the sprayed area made on June 7, showed that the foliage had not been destroyed. Only a few half-dead caterpillars too feeble to be dangerous, and soon to die, could be found on the leaves, while piles of dead caterpillars on the ground showed the effect of the poison. Trees in the neighborhood that had not been sprayed,



GYPSY MOTH CATERPILLARS ON TRUNK OF A WALNUT TREE



DEFOLIATION BY GYPSY MOTH IN JULY, 1904

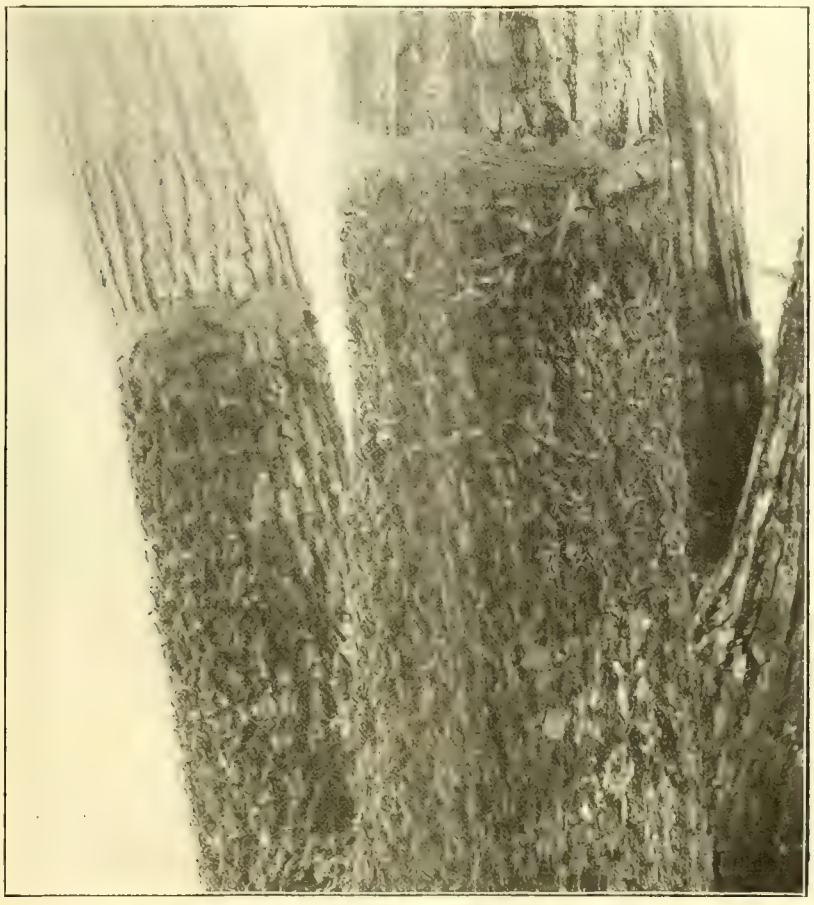
and on which no work of suppression had been done, were on June 7 entirely denuded of leaves. So far, therefore, as killing the caterpillars on this piece of ground is concerned, the experiment has been entirely successful. It shows:

First, that it is practicable to apply poison to the foliage of trees crowded in woods in sufficient quantities to insure the death of all insects feeding on it; and that it is not necessary to try other means of destruction if the spraying is done effectively and at the right time.

Second, that this method of destruction of the gypsy and brown-tail moths is cheaper and more effective than any of the methods which have been in general use for the destruction of these insects.

Third, that this method makes possible the preservation of the young trees and shrubs necessary for the perpetuation and beauty of the forest, previous attempts to destroy the gypsy moth on trees growing in woods being dependent on the destruction of all small plants able to afford them shelter and retreat.

Of the possibility of the easy destruction of the caterpillars of the brown-tail moth by arsenical poison when they are fully grown in spring, or in September, when they are first hatched, there is no question. Our experiment has shown that it is practicable to kill by arsenical poison the caterpillars of the gypsy moth when they are first hatched, but it is still to be demonstrated that poisoning is effective against the full-grown caterpillar, and it is evident that the mature caterpillars entering a sprayed territory will not be killed by poison applied six weeks earlier to trees which have produced new leaves since the application was made. Spraying, to be really effective, must be general, or, if it is not general, sprayed ground must be protected from invasion by some mechanical device.



Caterpillars Checked in Climbing Tree by Sticky Band
Trunk 18–in. in Diameter

Of the value of spraying against these insects on isolated street or orchard trees there can be no question. For such trees no matter what their size may be, it is effective and cheap. A comparison now of some of the large elm trees on the sprayed territory on Wyoming avenue with the elm trees of similar size on many sterets of the infested district will show the value of arsenical poison. In many cases these street trees have been carefully and laboriously cleared of egg-clusters and nests, but the impossibility of getting the last cluster or the last nest is shown by the presence on these trees of enough caterpillars to defoliate them. The impossibility of destroying all the egg-clusters of the gypsy moth in any given locality is well shown, too, at this time in the Middlesex Fells, where thousands of the caterpillars can be seen on trees in regions from which all undergrowth has been removed and where it was believed every egg-cluster had been killed.

C. S. Sargent,
John Lowell,
H. S. Hunnewell,
Committee.



Using Petroleum Flame to Burn Gypsy Moth Eggs in Crevices of Rocks

REPORT OF J. A. PETTIGREW

Dear Sirs: Agreeably to your request that I take charge of an experiment proposed by your Society for the suppression of the gypsy and brown tail moths, by spraying the foliage attacked by them with an arsenical solution, I arranged for the mounting of a Worthington steam pump of 35 gallons per minute capacity, on the frame of a portable steam

boiler of 8 horse-power, the whole costing $485, which attached to an ordinary 600-gallon street sprinkler, made an apparatus capable, under a pressure of 120 pounds per square inch in the pump chambers, of projecting two streams from $\frac{5}{16}$-inch diameter nozzles to a height of fifty to sixty feet. Another stream conducted through a perforated pipe into the sprinkling tub served as an agitator for the poisonous solution used. 200 feet of 1½-inch diameter hose was used as a main supply for the two distributing hose, which were each 200 feet in length, the first 100 feet being of one-inch diameter while the second 100 feet of each was ¾ of an inch in diameter, on the ends of which were the nozzles. An additional street sprinkler of 600 gallons capacity was used as an alternate to keep the pump in constant use. A single horse supply wagon, three sets of 40-foot extension ladders, and a corps of eight men, one foreman, two teamsters, and an engineer completed the equipment.

The piece of woodland selected by you was located at the junction of Ravine Road and Wyoming avenue, adjoining the Middlesex Fells Reservation, being entirely bounded by these roads and containing 11.4 acres. It is filled with a heavy and tall growth of pines and deciduous trees, which were badly infested with gypsy and brown-tail moths.

When the work of spraying commenced, on May 22, the gypsy larvæ were about ⅜ of an inch long, and the brown-tail larvæ about ⅝ to 1 inch long. The spraying was completed in four days. Subsequently, a lighter gasoline machine of three and one-half horse-power, and four men were employed for four days from May 31 in adding a second coat of the solution, at the edge of the woodland to a depth of fifty or seventy-five feet, to meet the present invasion of brown-tail larvæ from the woods across the boundary roads, and of the gypsy larvæ later.

Disparene, a composition of arsenate of soda and acetate of lead, was used in the proportion of ten pounds of the solution to one hundred gallons of water. At least two-thirds of the area had to be sprayed from ladders, on account of the height of the trees, about 160 of them being 60 feet high and upwards. When conditions were favorable, foliage seventy-five feet distant laterally could be covered with fine spray. To make the solution more adhesive to the foliage, flour, molasses, and glucose were each tried in turn, being mixed with the solution — the result in each case was satisfactory.

The net cost of first spraying was $240.09, or at the rate of $21.87 per acre. With the supplemental spraying of the borders included, the net cost was $338.04, or $29.65 per acre. The total cost of the work was $304.34. This includes cost of transport of equipment to and fro, and for time lost by men working so far from home, which is deducted as not being a legitimate charge in the cost of the work.

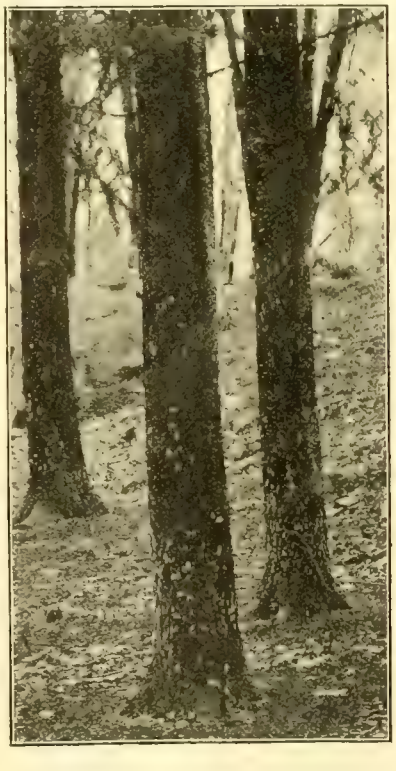
The poison was found to be effective against the gypsy larvæ on the second day, many being dead, others appearing sick and torpid. In a week the effect was much more noticeable, the larger and stronger brown-tail larvæ being also similarly affected, while nearly all of the larvæ of the gypsy moth were dead.

Very respectfully submitted,

J. A. Pettigrew



Boston Park Spraying Machine in Operation



Gypsy Moths Depositing Eggs, Prevented from Going Higher by Sticky Bands

EXTERMINATION IN ANDOVER

The trees belonging to the town of Andover, Mass., are in fine condition, attesting to the efficient work performed last winter by the tree warden J. H. Playdon, and had other property owners been as zealous in their endeavors as he, this section could be handled next winter so as to insure the practical annihilation of the pest. An interesting fact probably not noticed by every one is that the trees, especially elm and maple, in close proximity to an electric light are the ones most affected, as the moths during their flying state are attracted by the rays. The territory systematically covered was within a mile and a half from the center of the town, and represented from twenty to twenty-five miles of roadway. The amount expended was between five and six hundred dollars.

A delegation from Portland, Me., including the mayor and thirty other dignitaries, visited the Boston Park Department on Wednesday, June 14, and were escorted by Superintendent Pettigrew over the system. Park Commissioner A. W. Smith and Superintendent F. M. Floyd, of Portland Parks, called on Horticulture. They are deeply interested in the moth problem, which promises to become a live local topic in Portland very soon.

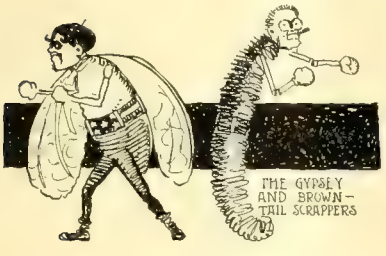
The Agricultural Experiment Station of the University of Illinois has issued Bulletin No. 98, devoted to the "Curculio and the Apple" by Chas S. Crandall. It records the investigations undertaken because of the serious and wide-spread injury to the apple crop by curculios, giving in full the life history and habits of the insect, characteristics by which it may be recognized, and the various means of control that have proved beneficial. There are three colored plates and a number of half-tone illustrations.

WHEN THE FOREIGN BUGS ARRIVE

By Lewis Allen

(Dr. L. O. Howard, chief of the Bureau of Entomology at Washington, has sailed for Europe where he will visit Italy, Austria, Germany, and England in search of varieties of bugs that will be physically superior to the gypsy and brown-tail moths, now infesting this State. These pugilistic calosomas he will bring home and turn loose on the moths here, in hopes they will be able to annihilate them.)

Behold the chief will sail away,
Will sail the briny froth,
And capture buglets, day by day,
To fight the gypsy moth.
He'll travel Europe 'round about
From Rome to England's strand
And capture, like a Western scout,
Some bugs from ev'ry land.



The gypsy and the brown-tail bugs
Are Jeffries of their kind,
And equal calosoma thugs
Are difficult to find.
So Howard goes like warrior King
To find the bug that fights
And homeward he expects to bring
Champion parasites.



The Poundathump Fitzsimmorine
From Italy's fair land,
Is somewhat of a peacherine
And fights to beat the band.
Mayhap he'll smite the Jeffries moth
Much quicker than a wink,
And yet the gypsy may get wroth
And put him on the blink.



The Whacker Plexacorbettjim
From Austria's hills and dales
Is full of lively fighting vim,
His jaw is hard as nails.
So when he takes a brown-tail bite
And keeps it up with zest,
He'll make a sorry looking sight
Of Massachusetts' pest.

Chabfurter Weinasharkey lives
Within the Kaiser's realm,
And just to hear the name he gives
Will almost overwhelm.
But when he meets the foreign foe
He won't have hard to strive
To get the Jeff bugs on the go
And eat 'em up alive.

Now Pokeishihout Hittinghart,
'E's quite a lusty chap;
'E comes from London's busy mart,
'E doesn't give a rap
For all the Jeffries bugs that bite,
'E knows wot 'e's about,
'E's ready to stand up and fight
And knock 'em down and out.

— *Boston Journal.*



BEVERLY, MASS., SCHOOL CHILDREN BRINGING IN THEIR COLLECTIONS OF BROWN TAIL NESTS FOR PRIZES

OUTDOOR ART AND CRAFT

The young of the San José scale will commence to travel within a few days. A good syringing with a solution of whale-oil soap at this period will kill them.

Now is the time to start to train the young conifers so that they will make symmetrical specimens by and by. It takes but a few moments time to run a little rod of bamboo down alongside the stem and secure a permanent "leader" by fastening a promising growth with a strand of raffia, cutting out any growths likely to interfere.

President Roosevelt has proclaimed a new forest reserve in California, to be known as the Lassen peak reserve, which covers part of the northern Sierra Nevada range, and contains 900,000 acres. Perhaps one hundred years from now this will be regarded as one of the most statesmanlike acts of his administration. — *Boston Globe.*

A number of those in the vicinity of Union street, who lost trees some time ago through the escaping of gas from the mains at Springfield, Mass., are to receive $75 for a perfect tree, and for others according to figures of comparative valuation furnished by the city forester. An effort was made to get $100 for a perfect tree, but the company would not agree to the terms.

New Hampshire has planted this season, 20,000 pine seedlings in Bedford where the land has been denuded by a lumber company. The activity shown by the State authorities together with the freedom with which young pines are voluntarily springing up on waste lands all over New Hampshire, promises well for the future pine forest resources of that State.

It is well worth the effort to make a visit to the F. R. Pierson Co. nurseries at Scarboro, N. Y. The planting of ornamental shrubs is exceedingly decorative in effect and shows their individual and massed beauty in a way that is impossible with the usual "nursery row" method of planting. Mr. Pierson believes it pays to "garden" nursery stock instead of "farming" it.

The question of a public park is being agitated in Schenectady, N. Y. A number of the prominent citizens it is said, are disposed to purchase the necessary land, while it is available, if the city will take it off their hands when it has the funds. The site regarded most favorably is between State and Union streets, above McClellan street, and the natural beauty of the place, combined with its easy access from the city, would seem to make it ideal for this purpose.

City Forester Horvath, who is now in charge of all arboricultural work in the city of Cleveland, has given much attention to the planting of trees on public streets this spring. There are five districts and in all of them 1,260 trees have been planted exclusive of over 300 American elms on St. Clair street, and the park frontage. Sycamore, lindens, and Norway maples were the only trees planted in streets not adjacent to park property. Further planting will be resumed in the fall.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

J. C. Vaughan of Chicago, has been visiting the trade in San Mateo and Santa Clara Counties, Cal., during the past week.

Henry Nungesser arrived in New York last week on the *Kaiser Wilhelm II*, this being his thirty-ninth trip across the Atlantic.

In connection with the Seedsmen's Convention at Alexandria Bay, June 20–22, a special excursion has been arranged by steamer down the St. Lawrence to Montreal, "shooting" the famous Lachine Rapids.

Particulars can be learned by those attending the convention.

It was stated in this column last week, that the condition of the pea crop was causing growers some uneasiness. Since then, Michigan, where 75 per cent of all the garden peas used in this country are grown, has been visited by one of the worst storms in its history, and immense damage has been done not alone to the pea crop, but to beans and all other crops. The loss is placed at hundreds of thousands of dollars. Grand River went on the rampage and in the lower parts of Grand Rapids it is reported, water flowed through the streets to the depth of four feet and with a current like a millrace. Hundreds of houses were flooded and the damage to property was very heavy. What was a fear a week ago, is now a sad fact, the only question being the extent of the damage. This cannot be positively known for several weeks, but already prices have hardened on future peas and beans, and growers are either refusing to quote or are asking ten to twenty-five per cent advance over prices ruling a few weeks ago.

AMERICAN SEED TRADE ASSOCIATION

The program for the twenty-third annual convention of the American Seed Trade Association at the Crossman House, Alexandria Bay, New York, is as follows

OPENING SESSION, TUESDAY, JUNE 20, 10 A. M.

Order of Business

Report of the secretary and treasurer; election of members; reports of committees; reading of communications; unfinished business; new business; general discussions; annual election and installation of officers.

Program

Points of interest at the Thousand Islands, Major J. H. Durham, Cape Vincent, N. Y.

Early History of the Seed Business, Charles H. Breck, (Joseph Breck & Sons, Boston, Mass.).

Increasing or Restricting Membership in the American Seed Trade Association. Albert McCullough, (J. M. McCullough's Sons Co., Cincinnati, O.).

Seed Growing in California, Lester L. Morse, (C. C. Morse & Co., Santa Clara, Cal.).

The Science of Business Building, R. U. Conger, (Mgr. Sheldon's School of Scientific Salesmanship, New York City).

Methods of Advertising, William Henry Maule, Philadelphia, Pa.

Growing and Keeping Onion Sets, C. F. Wood, (Wood, Stubbs Co., Louisville, Ky.).

Is the Vocation of Seed Dealing a Promising Field for Young Men? Mel. L. Webster, Independence, Ia.

Good Seeds which do not Grow, C. L. Allen, Floral Park, N. Y.

New and Desirable Forage Plants, Prof. C. V. Piper, (U. S. Department of Agriculture, Washington).

Trials and Pleasures of the Seed Trade, H. L. Holmes, (The Holmes Seed Co., Harrisburg, Pa.).

The Modern Seed Catalogue, M. B. Templin, (The Templin Co., Calla, O.).

Question box during Executive Sessions.

NEW VARIETY OF SWEET POTATOES

A new variety of sweet potato having great economic value has been acclimated in the experimental gardens of Bordeaux. It is a native of Dahomey and very prolific. The leaves of the plant can be used as a substitute for spinach, and the tubers, containing a higher percentage of sugar than beets, are fine flavored and make exceptionally good food for live stock. At present the authorities have only a limited quantity of tubers, and as these are to be used wholly for reproduction it will not be possible to obtain samples for American experimenters until next year. A few hundred "sprouts" have been distributed among French agriculturists. A box containing ten of these 'sprouts" has been placed at the disposition of the American consul, as the representative of the Smithsonian Institution, but as the young growths are extremely fragile and very susceptible to changes of temperature it is feared they may not survive transit to the United States, however well they may be packed.

ALBION W. TOURGEE, *Consul.*

BORDEAUX, FRANCE, *April* 21, 1905.

A GLASS WAR?

The Interstate Window Glass Manufacturers' Association was organized at Columbus, O., on June 13, by independent manufacturers from Ohio, Pennsylvania, Indiana, Illinois, Missouri, and Kansas, representing about one-half of the independent interests of the country. The principle purpose is to consolidate issues in the fight against the glass trust, whose machine glass is made with less expense.

It is probable that the independents will ask their employees to submit to a wage-reduction of from 20 to 25 per cent. This feature is still under consideration.— *Transcript.*

CATALOGUES RECEIVED

One of the most interesting catalogues which has come to our hands, interesting not alone in its contents, but in its typographical beauty, is that issued by the Mt. Hessarlik Nurseries of New Rochelle, N. Y. Hardy garden material is the feature and it is presented to the eye and intelligence of the reader in an irresistible manner.

Greenhouses Building or Projected

HOOPESTON, ILL. — A. Peterson.

RIPLEY, MICH. — A. M. York, two houses.

ALLENTOWN, PA. — Al. Grisemer, several houses.

CATONSVILLE, MD. — F. Fritze, three houses.

PEORIA, ILL. — Charles Loveridge, four houses.

IRWIN, PA. — William Cromack, two houses.

ELMHURST, CAL. — Domoto Bros., three houses.

TAMPA, FLA. — Anton Fiehe, one house, 35 × 100.

ROCKFORD, ILL. — H. W. Buckbee, range of houses.

MT. CARMEL, ILL. — M. L. Tilton, range of houses.

COHASSET, MASS. — C. W. Barron, conservatory.

BANGOR, ME. — C. L. Asmussen, cucumberhouse.

N. BEVERLY, MASS. — George W. Glines, one house.

DECATUR, ILL. — M. Z. Kellogg, carnation house,

CLEVELAND, O. — Adam Graham & Son, two houses.

LUTHERVILLE, MD. — Black Bros., three rose houses.

RHINECLIFF, N. Y. — Beach & Hester, violet house.

MONTGOMERY, ALA. — W. B. Patterson, three houses.

PITTSBURG, PA. — J. B. Murdoch & Co., range of houses.

NORTH BEVERLY, MASS. — C. E. Streamberg, violet house.

NEWTON CENTRE, Mass. — H. A. Wheeler, two orchid houses.

LIST OF PATENTS

Issued June 6, 1905

791,508. Weeder. Titus Snyder, Louisville, Ohio.

791,650. Fruit-Pitting Machine. Kernel T. Rikert, San José, Cal., assignor of one-half to Ebenezer C. Stowe, San José, Cal.

791,623. Hoe. Albert E. Holmes, Milwaukee, Oregon.

791,704. Fruit-Picker. Charles Lardner, Buffalo, N. Y.

791,746. Power Fruit-Press. Harvey M. Barngrover, San José, Cal., assignor to Anderson-Barngrover Manf'g Co., San José, Cal.

791,815. Fruit Pitter and Parer. Robert L. Pollock, Sterling, Kan.

Copies of any of the above patents can be obtained by sending ten cents in stamps to E. G. Siggers, patent lawyer, Station G., Washington, D. C., by mentioning the HORTICULTURE.

A certificate of incorporation has been filed at Albany, incorporating the Burnham, Hitchings, Pierson Co., at $2,000,000 capital. The incorporators are as follows:

W. A. Burnham, Irvington, N. Y.; Lyman B. Craw, New York City; Henry F. Lord, Irvington, N. Y.; Andrew Elder, Irvington, N. Y.; E. W. Hitchings, Montclair, N. J.; Charles Armitage, Montclair, N. J.; Charles G. Hall, Montclair, N. J.; Lincoln Pierson, Madison, N. J.; Paul M. Pierson, Ossining, N. Y.; William Sefton, Jersey City, N. J.; Henry C. Griffin, Tarrytown, N. Y.

CUT-FLOWER MARKET REPORTS

BOSTON Compared with last year the cut-flower business is sluggish at this date. Pæonies which were about over at this time one year ago, are now only beginning to come in from local growers. Jacqueminot roses are also just commencing to make an impression, with the chances that they are likely to rule lower than heretofore, on account of the competition of Liberty which is now grown in fine condition for this market and is at present the leader in popular favor; lily of the valley from frames is still being received and it has a depressing effect on the value of the greenhouse crop which ordinarily reaches its equilibrium by this date. Carnations are not only abundant but of excellent quality, owing to the favoring cool weather thus far.

BUFFALO Up to Friday last business was not at the best, there being plenty of flowers and plenty of rain. Old Sol no doubt gave Buffalo its share as well as someone else's share; with a soggy atmosphere, thunderstorms, and rain (almost enough for the season) it was hard on stock, especially carnation; those shipped from any distance were half asleep upon arrival. Pæonies played an important part and a good many were handled and moved fairly well, there being a strong demand and good prices for white. The usual amount of roses is being received. Of medium quality the sales are normal, while selects are selling readily. A good supply of Beauties is being received and the demand has somewhat increased, the shorter grades being best sellers. Sweet peas and promiscuous flowers are in good supply.

CHICAGO There was not much business done the first half of the past week; a deterrent factor was the enormous supply occasioned by the bright and warm weather, but even had the supply been in moderate offerings it is doubtful if it would have resulted in injecting the needed activity into the trade. The shipping demand was light and speculative trading was almost eliminated. Commencing Wednesday, the market was characterized by a substantial contraction in supply, which had the effect of developing a firmness in almost the entire market. Encouraged by the better tone some sellers tried hard to secure higher prices, but in this they met with a small measure of success.

American Beauties are in shorter supply, many of the specialists cutting from a limited batch which is reserved for the end of the season crop; however it is sufficiently equal to the demand. Rose planting is now on in full force. Offerings of Brides and Bridesmaid are smaller but still more than the ample needs of the buyers. Kaiserin Augusta Victoria rose has made its appearance, Wietor Bros. and J. A. Budlong showing the best quality. Liberty is the strong feature of the rose market, and the quality produced by Geo. Reinberg has never been equaled in this market; his cut promises to hold out for six weeks longer. There is an improved demand for carnations, especially noticeable on Estelle. For Budlong's Stella, a grand white variegated, $3.00 per hundred is paid where something exclusive is wanted; quality of carnations is excellent for this season of the year. Lilies are in fair proportion to the demand. Lilium auratum is already coming in with several growers. Pæonies galore; colored sorts in great abundance, the supply of white falling far short and prices showing gains. Calla supply light. Adiantum selling slow. Asparagus Sprengerii and plumosus are given preference. Ferns from Massachusetts and Michigan are plentiful. Outdoor sweet peas are now offered; lavender is the best seller; supplied only moderately.

LOUISVILLE Business conditions the past week were very favorable, owing to the numerous commencements. Carnations still sell, with the quality and quantity shortened, and there is no lack of roses of good quality. The demand for sweet peas is exceptionally good, and there is an abundant supply. Pæonies are not so plentiful, as the season is about over. Lilies still sell well.

MONTREAL The week has been a busy one in the stores; bedding stock has cleared up well; much funeral and church decorative work has also been carried out on a large scale. Roses have been in great demand; fine long-stemmed Beauties especially going well. Carnations, too, are keeping up well in quality and price.

NEW YORK The present week sees a tremendous influx of pæonies and the advance guard of what will shortly be an avalanche of gladioli. The cut-flower market is not in a condition to bear up under this and the heavy receipts of regulation material such as roses, carnations, lily of the valley, etc., and wholesale circles have a rather glum aspect, which is reflected in the retail establishments where summer lassitude seems already to have taken control. The variety of flowers presented is especially noticeable. Asters, dahlias, and stevia jostle pæonies, irises, and philadelphuses and, undoubtedly, if one were to make a demand for a bunch of chrysanthemums they would be forthcoming from somewhere. Jacqs are pushing the ordinary market rose one side for the time being. Most of the latter are badly mildewed. Carnations are good and cattleyas are superb.

PHILADELPHIA A very fair week for time of year — quite as good as expected. Roses went very well, especially American Beauties, although these are not bringing any fancy prices. Liberties and, in fact, all good colored varieties went well — a good deal better than white for commencement trade. Carnations very slow. No life about the market whatever, although quality all right. Sweet peas were very popular, but prices were low on account of the immense quantities coming in. Pæonies were plentiful and in good demand. Lily of the valley trifle in excess of demand, but was in fine shape and prices kept close to normal. A few gardenias still coming in, but going only medium. Double white petunias have been on the market for a short time and bring 75 cents per 100. They are popular for funeral work. Adiantum, smilax, and asparagus, enough to meet all requirements and prices about normal.

SAN FRANCISCO Cut-flower merchants report superabundance of stock of all kinds, and prices from under normal down; that this first week of June, now closing, has been remarkable for quantity of "quality" weddings, and that these festive affairs have afforded the only business florists have had thus far this month.

THE PLANT TRADE IN NEWPORT

The rush of planting is nearly over in Newport and the growers are satisfied. In some lines local dealers were short; begonias, for instance, which a few years ago had been all the rage had quieted down considerably for a while, but this year there was a rather unexpected demand for them. Dahlias have just about held last year's position; the phenomenal increase in the demand for them has not materialized. Fuchias are slowly, but persistently gaining recognition. Where these attract most attention is outside stores and when displayed in windows by retailers. Pansies sold very well and in many instances at fancy prices. Hydrangeas are as popular as ever, with plants in tubs selling most readily while smaller plants for planting in the open were frequently called for. Hundreds of native cedars planted during the last year or two had to be replaced because suddenly they took to themselves a rather brilliant metalic color, which was not altogether to the liking of those on whose estates they were planted. The trees could not help it, and even if they could, why should they be blamed for getting bronzed after being forced to come here in their old age, while others of a different and higher intelligence come here for that same purpose? Trees twenty feet high with two-thirds of their roots chopped off in the digging cannot be expected to thrive luxuriantly, especially when planted as single specimens, as has been done here; but for all this, however, the dead have given place to the living, and it is hoped with considerable more promise of a longer lease of life to those just planted, by reason of younger trees with more roots being chosen for the second trial.

WANTS

Advertisements under this heading one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE — Four violet houses, capacity 25,000 violets, at present stocked with tomato plants; living house four rooms; two acres land; near depot. For particulars address, W. E. GOODENOW, Stoughton, Mass.

FOR SALE — 1 Gurney Boiler $60.00; 1 Hitchings Boiler $40.00; 1 Hitchings Boiler $25.00; 1 Weathered Boiler $18.00; 1 Coil Boiler $15.00. These boilers are all in good condition. To be sold at once and removed from place. E. L. Clark, West St., Randolph, Mass.

SITUATION WANTED — Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R. care HORTICULTURE, 11 Hamilton Place Boston.

WANTED — A young man for stove and greenhouse plants, 'Mums, etc. Wages $60 per month Address T. G., 46 Russell Street, Rochester N.Y.

New Crop Beauties

FINE COLOR
GOOD CLEAN FOLIAGE

THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

VALLEY EXTRA CHOICE

Our stock of Valley is considered the best in the country.

Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.

In writing to advertisers, kindly mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO June 14	ST. LOUIS June 14	PHILA. June 12	BOSTON June 15
ROSES				
Am. Beauty, Fan. & Sp.	25 00 to 30 00	..... to 25.00	20 00 to 25.00	20.00 to 25.00
" Extra	22 00 to 25 00	15 00 to 20 00	15.00 to 20.00	12.00 to 15.00
" No. 1	15 00 to 20.00	10 00 to 12.50	10.00 to 12.50	4 00 to 8.00
" Lower grades	2 00 to 8 00	4 00 to 8.00	4.00 to 8.00	1.00 to 2.00
Bride & Maid – Fan. & Sp.	6 00 to 8 00	..... to	10.00 to 12.00	4.00 to 6.00
" " Extra	5 00 to 6 00	5.00 to 6 00	6 00 to 8 00	2.00 to 3.00
" " No. 1 and Lower gr.	1 00 to 5 00	3.00 to 4 00	2 00 to 5.00	.50 to 2.00
Liberty, Fancy & Special	10 00 to 12.50	..... to	12 50 to 15.00	10.00 to 12.00
" extra	8 00 to 10 00	5 00 to 6 00	10.00 to 12 00	8.00 to 10 00
" No. 1	6 00 to 7 50	... to 4.00	6 00 to 8.00	4.00 to 6.00
Meteor	..... to ...	.. to ...	..... to	2.00 to 6.00
Carnot and Kaiserin	5 00 to 12 00	..... to	3.00 to 6 00	4.00 to 10.00
Golden Gate) Best	6 00 to 8.00	5 00 to 6.00	8.00 to 12.00	5.00 to 6.00
Ivory) Medium	4 00 to 5 00	.. to 4 00	3 00 to 6 00	3.00 to 4.00
Chatenay) Culls	2 00 to 3.00	3 00 to ...	1 50 to 3 00	1.00 to 2.00
CARNATIONS				
Fancy Class	2 00 to 3 00	2.50 to 3 00	2 00 to 3 00	1.50 to 2.00
General Class	.50 to 2 00	1 00 to 2 00	75 to 2.00	.75 to 1.00
ORCHIDS				
Cattleyas	50 00 to 60 00	..... to ...	50 00 to 60 00	..... to .....
BULBOUS				
Lilies	10 00 to 15 00	... to	10 00 to 15.00	6.00 to 8.00
Lily of the Valley	2.00 to 4 00	..... to ..	3 00 to 5.00	2.00 to 4 00
Stocks	..... to	..... to	..... to	1.00 to 2.00
Daffodils	..... to	..... to	..... to	..... to .....
Callas	6.00 to 8 00	..... to	... to	6 00 to 8 00
MISCELLANEOUS				
Mignonette	1 50 to 3 00	... to	... to	1.00 to 2 00
Sweet Peas	.50 to 1.00	.15 to .25	.50 to .75	.35 to .50
Adiantum Cuneatum	.50 to .75	..... to	.75 to 1.00	..... to 1.00
" Croweanum	..... to	... to	1.25 to 1.50	..... to 1.50
" Farleyense	..... to	... to	... to	..... to .....
Smilax	10 00 to 12 50	12 50 to 15 00	15 00 to 20 00	12 00 to 16 00
Asparagus Plumosus; strings	25 00 to 35 00	... to	25.00 to 50.00	35 00 to 50 00
" " bunches	20 00 to 50 00	25 00 to 75 00	25.00 to 50 00	35 00 to 50 00
" Sprengeri "	20.00 to 35 00	25 00 to 75.00	25 00 to 50 00	25 00 to 35 00
Gardenias	..... to .	..... to	6 00 to 12.50	..... to .....
Pæonies	2 00 to 8 00	..... to	..... to	4 00 to 6.00

Cut Flowers

BOSTON'S BEST
ALL VARIETIES
SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

Hardy Cut Dagger and Fancy
FERNS
$1.50 per 1000
Green and Bronze Galax, $1 per 1000

Best Stock of FLORISTS' SUPPLIES In the country
H. M. Robinson & Co.
8 & 11 PROVINCE ST.
Boston, Mass.

In writing to advertisers, mention HORTICULTURE

E. H. HUNT

Wholesale
Cut Flowers
"THE OLD RELIABLE"
76 Wabash Ave. ....CHICAGO

In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER
WHOLESALE FLORIST
1432 So. Penn. Sq., PHILA.
Sweet Peas, Peonies
Carnations

In writing to advertisers, mention HORTICULTURE

PHILADELPHIA CUT FLOWER CO.
1516-1518 SANSOM STREET, PHILADELPHIA
PEONIES, KAIZERIN, SWEET PEAS
IN QUANTITY. :: :: :: WRITE US FOR PRICES.

In writing to advertisers, kindly mention HORTICULTURE

EVERYTHING IN
CUT FLOWERS
OUR MOTTO { GOOD { STOCK / TREATMENT / PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

CHAS. W. McKELLAR
51 WABASH AVE. CHICAGO
Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment
From 40 to 60 Growers
We can and will take care of your Cut Flower and Supply Wants to advantage
E. F. WINTERSON CO. 45-47-49 WABASH CHICAGO
CATALOGUE FREE

PETER REINBERG
WHOLESALE
CUT FLOWERS
51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

BUSINESS CHANGES

A. R. Johnson has started in business at Bellevue, Ky.

A. Peterson has sold his place at Paxton, Ill., to Addems & Morgan Company.

Lilly, Bogardus & Co., have opened a store on Market street, San Francisco.

Mrs. A. A. Wilson has opened a new store at 24 South B street, Virginia City, Nev.

W. Austin has sold out his greenhouses and business at Genesco, Ill., to the Hill Floral Co.

The Nevada Floral Parlor is the name of a new flower store opened by W. J. Thomas at Tonopah, Nev.

M. L. Tilton has purchased the business and greenhouses of the Mt. Carmel Floral Co., at Mt. Carmel, Ill.

Anthony Lawson has leased the greenhouses of John McDonald at Farmer City, Ill. Mr. McDonald will retire from business.

M. S. Donoghue of St. Johnsbury, Vt., has purchased the E. H. Howland estate in Springfield, Mass., for $23,000, and will take possession immediately.

BUSINESS CHANGES IN CHICAGO

There is a rumor afloat that Chicago is to have another wholesale store, with 50,000 feet of glass, now under construction.

Albert Lies of Tuohy and Western Aves. has bought the John Brod place at Niles Center, Ill., Zeck & Mann will handle the cut.

Frank Williams, proprietor of the Atlas Floral Co., has purchased of N. Mosconesotes and N. Alexandrias the Masonic Temple flower store. James Aldons will be in charge.

Charles Wolf, formerly with Gollan & Wolf, Downers Grove, Ill., is building a range of six houses, 28 x 100, to be devoted to Brides and Bridesmaids. Cut will be handled by E. H. Hunt.

The sensational law suit of millionaire George B. Wilson against the Philadelphia wholesaler Samuel S. Pennock, has been withdrawn. Wilson first sued his gardener, Alphonse Pericat, for misappropriation of funds received from the sale of orchid flowers, but failed to make his point. Then he sued Mr. Pennock for the sums paid to Pericat. After having put Mr. Pennock to a deal of trouble and expense in preparing to defend himself, the case has been withdrawn on the eve of going to trial — a virtual confession of the unjustness of the claim. The consensus of opinion seems to be that the whole business has been a piece of childish spitefulness all through.

ROSES

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy.

		100	1000			100	1000
American Beauty,	3-inch,	$6.00	$50.00	Uncle John,	2 inch,	$2.00	$15.00
Gen'l McArthur,	3½-inch,	8.00	75.00	Chatenay,	3½-inch,	3.00	25.00
Uncle John,	3½-inch,	3.00	25.00	Bridesmaid,	2-inch,	2.50	20.00

American Beauty (Bench Plants) $4.00 per 100; $35.00 per 1000

AS A LEADER we offer UNCLE JOHN in 3-inch pots at $25; 2-in at $15.

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Enchantress	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Lawson (Pink)	Stella	Harry Fenn	Triumph	Peru
Boston Market	Crusader	Roosevelt	Mrs. Ine	Guardian Angel

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Prices furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in A1 CONDITION.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and CARNATIONS A SPECIALTY.... WHOLESALE GROWER of Cut Flowers

In writing to advertisers kindly mention HORTICULTURE

FANCY OR DAGGER FERNS



FANCY, $1.50 per 1000; DAGGER, $1.25 per 1000. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 35c per large bundle. Southern wild Smilax, 50-lb cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

CROWL FERN CO. - - - MILLINGTON, MASS

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

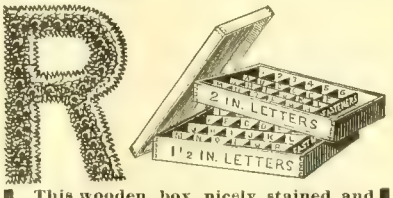
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In writing advertisers, mention HORTICULTURE.

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2

Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

FRED C. WEBER
FflorIST

4326-28 OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 676

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

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Write for Price List and Samples

In writing to advertisers, mention HORTICULTURE

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JULIUS LANC
Wholesale Florist
Consignments received, sold well and returns made promptly
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

GEORGE A. SUTHERLAND CO.
CUT FLOWERS
Florists' Supplies and Letters
34 Hawley St. - BOSTON

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City
In writing to advertisers, kindly mention HORTICULTURE

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.
In writing to advertisers, kindly mention HORTICULTURE

Wm. Ghormley
Wholesale Commission Florist
57 West 28th Street - - NEW YORK
American Beauties
Brides, Bridesmaids
Meteors,
and other varieties of Roses
ROSES
Carnations
Lily of the Valley
Orchids, Lilies
Mignonette, and all other flowers in season
Telephones 2200 2001 Madison Square
Special care taken with Shipping Orders
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100 TO DEALERS ONLY

	Last Half of Week ending June 10 1905	First Half of Week beginning June 12 1905
ROSES		
Am. Beauty, fan. and sp	12 00 to 20 00	12 00 to 20 00
" extra	8 00 to 12 00	8 00 to 12 00
" No. 1	4 00 to 8 00	4 00 to 8 00
" Lower grades	1 00 to 2 00	1 00 to 2 00
Bride & Maid, fan. and sp	4 00 to 6 00	4 00 to 6 00
" " extra	2 00 to 4 00	2 00 to 4 00
" " No. 1 and Lower gr.	50 to 2 00	50 to 2 00
Liberty, fan. and sp.	5 00 to 8 00	5 00 to 8 00
" extra	3 00 to 5 00	3 00 to 5 00
" No. 1	2 00 to 3 00	2 00 to 3 00
Meteor	to	to
Jacq	to	to
Brunner	to	to
Carnot and Kaiserin	2 00 to 6 00	2 00 to 6 00
Golden Gate Best	to	to
Ivory Medium	to	to
Chatenay Culls	to	to
CARNATIONS		
Fancy Class	1 50 to 2 00	1 50 to 2 00
General Class	50 to 1 00	50 to 1 00

	Last Half of Week ending June 10 1905	First Half of Week beginning June 12 1905
ORCHIDS		
Cattleyas	75 to 1 00	75 to 1 00
Cypripediums	to	to
BULBOUS		
Lilies	4 00 to 6 00	4 00 to 6.00
Lily of the Valley	2 00 to 4 00	2.00 to 4.00
Callas	to	to
MISCELLANEOUS		
Mignonette	.50 to 2 00	.50 to 2.00
Sweet Peas	.10 to .75	.10 to .75
Adiantum Cuneatum	.50 to .75	.50 to .75
" Croweanum	to 1 50	to 1.50
" Farleyense	to	to
Smilax	8 00 to 12 00	8 00 to 12 00
Asparagus Plumosus, strings	.35 to .50	.35 to .50
" " bunches	15.00 to 25 00	15 00 to 25.00
" Sprengeri "	10 00 to 20 00	10 00 to 20.00
Gardenias	4.00 to 8 00	4.00 to 8.00
Lilacs, bunches	to	to
Pæonies	1 00 to 3 00	1 00 to 3 00

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK
In writing to advertisers, mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., New York City
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, mention HORTICULTURE

DETROIT
John Breitmeyer's Sons
Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.
Artistic Designs
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada.
In writing to advertisers, mention HORTICULTURE

WEILAND & RISCH
Leading Western Growers and Shippers of
Cut Flowers
59 Wabash Ave., CHICAGO
Long Distance Phone Central 879.
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., NEW YORK CITY
Tel. 854 Madison Sq.
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
43 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Shipping orders supplied with selected Flowers at reasonable prices. Send for circular.
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

REED & KELLER
122 W. 25th St., New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Galax Leaves and all Decorative Greens
Agents for CALDWELL'S PARLOR BRAND WILD SMILAX
In writing to advertisers, mention HORTICULTURE

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON

WIETOR BROS.
Wholesale Growers of
CUT FLOWERS
51-53 Wabash Ave., CHICAGO, ILL.
In writing to advertisers, mention HORTICULTURE

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
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Carnations
And all kinds of Seasonable Flowers
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Also Dealer in Florists' Supplies and Wire Designs
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Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.
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ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

OUR FLOWERS Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unexcelled quality EVERY DAY IN THE YEAR.
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI JUNE 14	BALTIMORE	BUFFALO JUNE 14	PITTSBURG JUNE 14
ROSES				
Am. Beauty, fan. and sp.	25.00 to 30.00	.. to ..	20.00 to 25.00	20.00 to 25.00
" extra	20.00 to 25.00	.. to	15.00 to 20.00	15.00 to 18.00
" No. 1	12.00 to 15.00	.. to ..	10.00 to 15.00	8.00 to 12.00
" Lower grades	8.00 to 10.00	..... to	2.00 to 5.00	2.00 to 5.00
Bride & Maid, fan and sp.	5.00 to 6.00	.. to	6.00 to 8.00	..... to 8.00
" " extra	..... to 4.00	.. to ..	5.00 to 6.00	.... to 6.00
" " No. 1 and Lower gr.	2.00 to 3.00	.. to	2.00 to 5.00	1.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	.. to	6.00 to 10.00	6.00 to 15.00
" extra	..... to 4.00	..... to	5.00 to 6.00	..... to ...
" No. 1	..... to 3.00	.. to	4.00 to 5.00	..... to ...
Meteor	..... to	..... to	3.00 to 6.00	..... to ...
Jacq.	..... to	..... to	..... to	..... to ...
Brunner	..... to	..... to	..... to	..... to ...
Carnot and Kaiserin	..... to	..... to	4.00 to 6.00	2.00 to 12.00
Golden Gate) Best	..... to 6.00	.. to	4.00 to 6.00	..... to ...
Ivory) Medium	4.00 to 5.00	..... to	3.00 to 4.00	.... to ....
Chatenay) Culls	2.00 to 3.00	..... to	2.00 to 3.00	.... to ....
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 3.00	..... to ..	1.50 to 2.50	2.00 to 3.00
General Class	1.00 to 2.50	..... to	.75 to 1.50	.75 to 1.50
ORCHIDS				
Cattleyas	..... to	.... to	..... to	.... to .
Cypripediums	..... to	..... to	..... to	.... to ...
BULBOUS				
Lilies	..... to 10.00	.. to	.... to ...	.. to
Lily of the Valley	3.00 to 4.00	.... to	3.00 to 4.00	.. to
Stocks	..... to ..	.. to	..... to	.. to ...
Daffodils	..... to	..... to	.... to ...	... to ...
Tulips	..... to	... to	.... to ...	..... to ..
Callas	6.00 to 8.00	..... to	6.00 to 8.00	... to
MISCELLANEOUS				
Mignonette	..... to ..	... to	.... to ...	..... to ...
Sweet Peas	.50 to .75	... to	.30 to .75	.20 to 1.25
Adiantum Cuneatum	..... to 1.00	.... to ..	.50 to 1.00	.75 to 1.50
" Croweanum	..... to	..... to	..... to 1.50	.. to .
" Farleyense	..... to	.... to ..	10.00 to 12.00	... to ...
Smilax	12.50 to 15.00	.... to .	15.00 to	12.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	to	50.00 to ...	20.00 to 50.00
" " bunches	..... to	to ..	25.00 to 50.00	.... to ...
" Sprengeri "	25.00 to 35.00	to	25.00 to 50.00	15.00 to 25.00
Gardenias	..... to	..... to	.. to	..... to .....
Lilac, bunches	..... to	..... to	..... to ..	..... to .....
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Graduation Days and June Weddings

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G. C. Watson, 1614 Ludlow St., Philadelphia.
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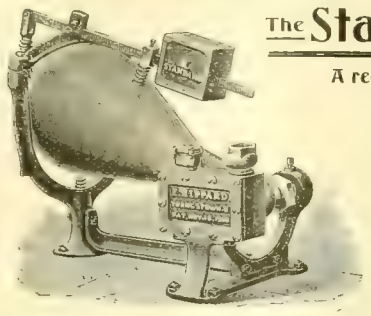
LILY OF THE VALLEY CROWNS, TREE SEEDS, RAFFIA.
Aug. Rhotert, 26 Barclay St., New York
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.
A. Klekner, Wauwatosa Wis.
For page see List of Advertisers

PLANT STAKES.
H. F. Michell Co., 1013 Market St., Philadelphia
For page see List of Advertisers

WHOLESALE FLORIST.
E. F. Winterson Co., 45–47–49 Wabash Ave., Chicago.
For page see List of Advertisers

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The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio



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Send your business direct to Wash ington, saves time, costs less, better service.

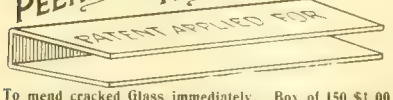
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ESTAB. 1765

A. H. HEWS & CO.

NO. CAMBRIDGE MASS.

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Standard Flower... POTS

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Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

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Wrought Iron Pipe, sizes from 3-8 inch to 14 inch.

Boiler Tubes, sizes from 1 3-4 to 8 inch.

50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

Lumber, Garden Hose, Etc.

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HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

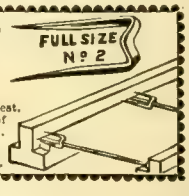
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See the Point

PEERLESS

FULL SIZE No 2



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

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Everything in Pine and Hemlock Building Lumber

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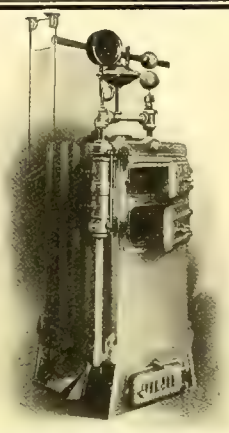
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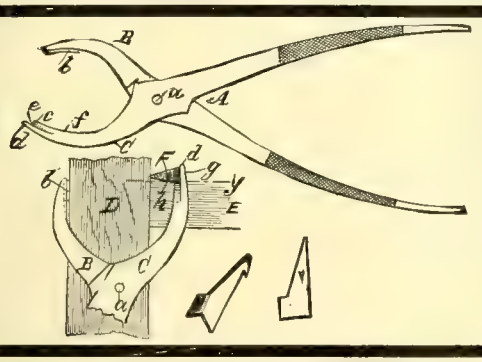
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From $25.00 up. Send for circular
The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.



Scollay Invincible **Boilers**
—FOR—
Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

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Borough of Brooklyn, NEW YORK CITY
Write for Catalogue and Special Prices



THE OLD RELIABLE
Chandler Glazing Point and Pincers

Roofs glazed eighteen years ago are still intact.
Don't glaze until you write for samples and particulars.
300,000 sold by Peter Henderson & Co. in three months.

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HYDE PARK, MASS.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
Joseph Breck & Sons CORPORATION
AGENTS



We are the Manufacturers Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
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Designed and erected for Judge W. H. Moore, Prides Crossing Mass.

Greenhouses, Conservatories, Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

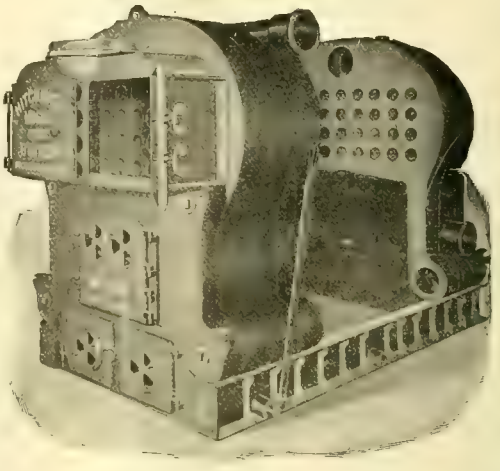
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HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844

NEW MOGUL



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FOR HOT WATER or STEAM

HITCHINGS & CO.

NEW YORK
233 Mercer Street

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Send 4 cents for catalogue

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The PIERSON-SEFTON Co.

Horticultural Architects and Builders
West Side Ave., Jersey City, N. J.

WE MANUFACTURE and ERECT

EVERY TYPE OF

GREENHOUSE

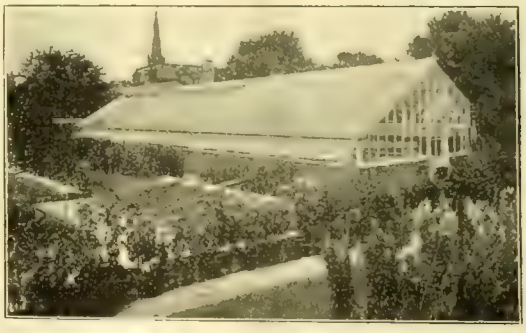
The GALVANIZED "U" BAR TYPE
The FLAT IRON RAFTER TYPE
The SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type.
Wood and iron frame benches and tables.
Hot-bed sash and frames.
Special hand-made Greenhouse putty.
Pipe, Fittings, Valves and everything for Greenhouse Heating.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



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Interior view of Flat Rafter House erected for Mr. W. P. Willis, Flushing, N. Y.

HORTICULTURE

Vol. I JUNE 24, 1905 No. 30



PÆONY GIGANTHEA

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00



Something New for Decorating

Now that the season for Wild Smilax is over and no more stock can be supplied, I wish to call your attention to the Branches of the Huckleberry Tree as a most elegant Decorative Green.

It is largely used by the Florists of the Pacific Coast, Washington, and Oregon, in Decorations. The Branches are FLAT, very thickly furnished with exceedingly lustrous green leaves, and it seems to adapt itself to almost any position in decoration that the Wild Smilax can be used in.

As the Introducer of Southern Wild Smilax, I think you can give me credit for knowing a good thing when I see it, and I am convinced that in Huckleberry Branches, you will have a very beautiful substitute for the Wild Smilax, of great value to you through the months of May and June.

I am anxious to get the Verdict of the Floral Trade on this introduction and offer to send you a Case on Suspicion, price $2.50 per case if it suits you, nothing if it does not. Will you try a case on these terms?

Yours very truly

CALDWELL THE WOODSMAN

The Man who gave you the Wild Smilax

Evergreen, Ala.

New Crop **Hardy Ferns** NOW READY
Fancies, $1.50 per 1000
Daggers, $1.25 per 1000

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—FOR—
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SIEBRECHT & SON

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Chatenay	4.00	30.00	5.00
Bridesmaids, Brides	4.00	35.00	5.00
Gates	3.00	30.00	5.50
Sunrise	4.00	35.00	5.00
Perles			5.00

CUT BACK BENCHED PLANTS

	Per 100	Per 1000
Beauties	$5.00	$40.00
Maids, Gates, Perles, Meteor, Chatenay, Brides	2.50	22.00

Price list of Mums mailed on application.
Headquarters for finest Cut Roses, Carnations and other Cut Flowers, Harrisii and Valley all the year round.

POEHLMANN BROS. CO., Morton Grove, Ill.

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Lily of the Valley

Large Strong Selected Pips in boxes of 2500 each

WM. HAGEMANN & CO.

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Gardenia VEITCHII (TRUE)

All up-to-date Florists are laying in a stock of the above. Choice blooms being always in demand at fancy prices. Extra strong, bushy plants, 4-inch pots, **$6.00 per doz.; $45.00 per 100.** 25 at 100 rate.

Arthur T. Boddington

342 West 14th St., NEW YORK

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HORTICULTURE

VOL. I | JUNE 24, 1905 | NO. 30

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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Our Fertilizers are prepared especially for the Florist Trade and are analyzed by an expert chemist and guaranteed that they are free from all acids. You can use OURS without fear of damaging your plants.

Pure Bone Meal for Greenhouses

Nothing but Pure Bone ground fine making it ready for instant use

50 lbs	$1.25	500 lbs	$ 8.00
100 lbs	2.00	1000 lbs	15.00
200 lbs	3.50	2000 lbs (ton)	27.50

Pure Bone Flour

A fine powder 17% soluble in water and immediately available

100 lbs	$2.25	500 lbs	$ 8.50
200 lbs	4.00	1000 lbs	16.00
2000 lbs. (ton)			$30.00

Blood and Bone

This is our regular Bone Meal mixed with Pure Blood. It is an excellent fertilizer to use as a top dressing or for potting

100 lbs	$2.00	500 lbs	$ 9.00
200 lbs	4.00	1000 lbs	16.00
2000 lbs. (ton)			$30.00

Pure Pulverized Sheep Manure

Contains no sand or dirt. Kiln dried to destroy weed seeds

100 lbs	$1.50	500 lbs	$5.00
2000 lbs. (ton)			$16.50

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Palms, Ferns
And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias Dracaenas, Aspidistras, Marantas, Crotons etc., etc. : : : : : : : : : : : : : :

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NEPHROLEPIS BARROWSII

$25.00 PER 100

Scottii Ferns..... **10.00** per 100
Boston Ferns..... **3.00** per 100

See display ad. in HORTICULTURE May 6th.

HENRY H. BARROWS & SON
WHITMAN, MASS.

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It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years.

JOHN SCOTT
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Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England

Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

CYCLAMEN SPLENDENS GIGANTEUM HYBRIDS

Once transplanted,	$2.00 per 100	$18.00 per 1000
Twice "	$3.00 per 100	$25.00 per 1000

Seed of only selected flowers and well-built plants. None better.

C. WINTERICH, Defiance, Ohio

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Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; $1.25 per 10 lbs.; $10.00 per 100 lbs. Information as to Special Culture on application.

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CLUCAS & BODDINGTON CO.

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PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

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ARRIVED IN SUPERB CONDITION

CATTLEYA LABIATA
C. WARNERII
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Write for prices, also for catalogue of established Orchids.

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Orchids Growers and Importers SUMMIT, N. J.

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2-in Stock, $12.00 per 100

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1012 Ontario St., PHILADELPHIA

Importer of Araucaria excelsa, glauca, compacta, and robusta

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Write for Prices

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Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building
28 STATE ST. - - - BOSTON
Telephone, Main 58

Consult the Buyers' Directory on Pages 974 and 975 for information as to where to buy the right goods at the right prices.

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BAMBOO STAKES

SUZUKI & IIDA

31 BARCLAY ST., NEW YORK

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20,000 MUMS

in good Commercial kinds, ready to plant from 2½-in. pots.

A. J. Balfour, best pink, M. Liger, Maud Dean, Mrs. Carrington, Murdock, Glory Pacific, Timothy Eaton, Polly Rose, Ivory, Bonnaffon, Appellon, Kate Broomhead, John Shrimpton.

$2.50 per 100. 500 plants, own selection of above kinds, $10.00.

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Asparagus Seedlings

From flats. Well grown and thrifty.

Plumosus Nanus	$10.00 per 1000
Sprengeri	8.00 per 1000
Large 3-inch Plumosus Nanus	25.00 per 1000

Cash with order, prepaid. Get our prices on large lots

Yalaha Conservatories, YALAHA, Lake Co., Fla.

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STRONG ROOTED CUTTINGS

We offer first-class stock of the finest varieties

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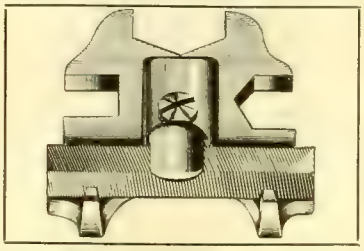
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3 " "	.65	6.15
3½ " "	.78	7.18
4 " "	.88	8.16
4½ " "	1.00	9.20
5 " "	1.12	10.23
5½ " "	1.20	11.27
6 " "	1.30	12.25
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A whole string is liable to be stronger than several pieces tied together; so is a continual use of advertising space stronger than an intermittent use of it. — *Rusty Mike's Diary.*

Tobacco Seed of Cuba
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Shower Bouquet of Sweet Peas



During the spring and early summer, we use a great many bouquets of sweet peas. A cibotium leaf suggests the shape of a shower bouquet. Adiantum Farleyense adds very much to the effect.

W. H. Battle.

Herbaceous calceolarias

Herbaceous calceolarias, when well grown, take a foremost position among decorative flowering plants during the months of April and May. The wonderful markings and vivid colors to be seen in a collection of these plants, at once attract attention, and there is no reason why they should not be much more generally grown, especially in private gardens, than is now the case. I propose in the following few lines to give a short outline of their cultivation that will be likely to lead to success.

First, a packet of seed must be obtained from a reliable source, and the latter end of July is a good time to sow it. Procure some pots or pans that are thoroughly clean, which must be well drained and filled with a light, sandy soil; also see that the surface is quite level. Water well before sowing. On account of the minute size of the seed it is best not to cover it all with soil; simply scatter it over the surface.

When sown, place the pans in a cool, shady place in the greenhouse and cover with a sheet of glass. The seed should not require watering until it is up, but if it should get anything like dry, of course it must be watered, and the best way to do this is to hold the pans in a pail of water and allow it to soak through from the bottom, rather than watering overhead at this stage. As soon as possible to handle the seedlings, with a piece of pointed stick they should be pricked off into five-inch pots, a couple of dozen or so in a pot, using the same kind of light, sandy mixture as before and watering with a very fine rose. It is always advisable to prick off about double the number it is intended to grow, as these young plants are very liable to damp off. This damping is, I consider, one of the greatest difficulties the cultivator has to contend with, and this is the reason I prefer to prick them off into a comparatively small pot rather than boxes. There are more chances, for if a box once starts to damp it takes a lot of stopping, and the entire box is likely to be lost. If the grower can keep the young seedlings just moving and healthy until the cooler nights of late September and October, he will have made a good start.

When the plants are large enough and nicely rooted, they should be transferred singly to the smallest size pots, still using a light, sandy soil. They must always be placed in a shady position on a moist bottom and have a fine syringing overhead several times a day in hot, bright weather. A mean temperature of from 45 to 50 degrees from now on through the winter will suit them admirably. As soon as the small pots are well filled with roots, shift to three-inch pots, and at this stage, some well-rotted cow manure in the proportion of one to five may be mixed with the soil to advantage. Later pottings in January and February may be to six-, eight-, and ten-inch pots for the more vigorous specimens. For the final potting, cow-manure, well-rotted, in the proportion of one to four, and a good dusting of bone meal with the soil may be used.

The worst pest to which these plants are subject is green-fly, and they must be given no quarter. It is well to fumigate once a week or ten days, when no difficulty should then be experienced in keeping them quite clean and healthy. The plants should never be crowded together after potting, but always allow a good space between the pots for a circulation of air, or the lower leaves will quickly damp. When the flower spikes appear they should be neatly staked out, and on commencing to flower, the collection will probably last in bloom from six weeks to two months, delighting all who see them and proving a rich reward for the patient, painstaking cultivator.

John Heeremans.

Indispensable Water-lilies

No garden, comprising an area of a city lot or the dimensions of a city park, is complete, without a lily-pond, but what is suitable for the latter might be entirely out of place in the former. What is necessary in both instances is a judicious selection, and this requires a familiarity with species and varieties. In a small pond it is often very desirable to accommodate as many varieties as possible, and a selection is made of both hardy and tender varieties. The result is failure or partial failure, as the tender or tropical nymphæas grow more rapidly than the hardy varieties, and at a time when the latter are inclined to be less active, that is, when warmer weather sets in, the hardy nymphæas suffer in consequence. In large ponds it is equally as necessary to make a proper selection, and instead of planting single plants, clumps of several plants of one variety should represent one nymphæa of the desired color; and where it is desirable to plant the native Nymphæa odorata, plant that by itself alone, and if in a large pond, its companion, N. o. rosea, may also be planted. The same will apply to Nymphæa tuberosa and its varieties. Do not plant these with the Marliacea varieties and it will save much annoyance and future trouble, as all forms of odorata and tuberosa seed freely, and in an incredibly short time they will monopolize the pond and all forms of Marliacea Laydekeri and other varieties will suffer in consequence.

No hybrid nymphæas produce seed and they are propagated only by division, hence no seedhouse offers water-lily seed for sale, save such as odorata and tuberosa amongst hardy, and some species of tender nymphæas.

The hardy nymphæa seed loses its vitality at a very early date if dried, consequently a very small percentage germinate when sown in spring. Nymphæas ripen their seed in early fall, and naturally are deposited in the water, or rather in the pond, where they germinate at once. Late ripened seed remain in the natural deposit until warm days in spring. To preserve seeds of hardy water-lilies, keep them in water, but, better still, sow as soon as ripe. Seed of tender nymphæa may be kept dry for two or more years and may be sown at any convenient season.

Victoria seed requires to be kept in water. A temperature of 65 degrees is sufficient to keep the seed in a dormant condition, although V. Trickeri will germinate in this temperature. V. Regia requires a temperature of 90 to 95 degrees. For early use victoria seeds may be sown end of January or early in February; the seed will germinate in three weeks. When the plants can be handled, a temperature of 85 degrees is sufficient and suitable plants for transplanting into permanent quarters can be assured in three months. Victoria plants as usually grown are annuals, and require a tropical temperature to develop them, but a high temperature during the shortest days of the year is maintained only by extra firing, which is unnecessary and not conducive to strong, healthy plants.

Water-lilies cannot be grown with any degree of satisfaction in winter. Some of the tender varieties can be carried over, but hardy varieties must have their natural rest. They may be started early and can be had in flower in March, but it is useless, save for propagation purposes. Greenhouse space is too valuable in winter to devote to water-lily culture, especially for the commercial florist. True, there are two or three varieties that will flower during winter, and when a person wishes to indulge in such a pastime he can do so, but it is not commendable.

The following are some of the best nymphæas in cultivation and, although they may cost a trifle more, they are as easy to manage as the cheapest; besides they give a smack of progressiveness and up-to-dateness.

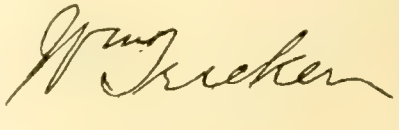
White, hardy, for large ponds. — N. odorata gigantea, N. Gladstoniana, and N. tuberosa Richardsoni. For moderate-sized ponds. — N. Marliacea albida. A beautiful white form of N. reniformis or tuberosa was put on the market a few years ago as N. blanda, but the latter is not white and I can find no record of it out of its native habitat, which is South America, save as herbarium specimen.

Pinks, for large ponds. — N. odorata rosea, N. Marliacea rosea. For moderate-sized ponds. — N. o. William Shaw, N. o. Caroliniana, when this variety can be obtained true to name, which is now very seldom, N. Marliacea rosea.

Other shades between pink and crimson, which include some of the best of the hybrids, are N. rubrapunctata, N. gloriosa, N. Robinsoni, N. Andreana, and N. James Brydon.

Yellow. — For large or medium-sized ponds, nothing can surpass N. Marliacea chromatella. N. o. sulphurea is a good yellow, but in some localities it has suffered from the attacks of a fungous disease. N. Mexicana is a rich yellow, but the flowers are small. It should be planted in a pond by itself, when it will make a grand showing. It is perfectly hardy in the vicinity of Philadelphia and doubtless will prove to be hardy anywhere, where N. odorata is hardy.

There is no yellow N. reniformis or tuberosa. N. chromatella was first named N. tuberosa flavescens, but was renamed N. Marliacea chromatella, by which name it has since been listed. There are no yellow tender nymphæas in cultivation. All nymphæas are vigorous and, under culture in artificial ponds, should be liberally treated All varieties enumerated above should be allowed 9 to 10 cubic feet of the best compost to each crown or single plant.



British Horticulture

A SWEET PEA SPECIALIST

THE new giant-flowered sweet pea, Gladys Unwin, which is being distributed by Messrs. Watkins and Simpson, is attaining increasing popularity. It was raised in 1901 by Mr. W. J. Unwin, of Histon, Cambridge, and is a sport from Prima Donna. The color is a delicate shade of pink, with a bold and crinkled standard, with long stems and vigorous foliage. It is very hardy, and a large percentage come with four blooms on the stem. Mr. Unwin has about an acre of this variety growing, and he cultivates some seventy different kinds. Nearly two acres are devoted to the culture of bloom for market purposes. It is found that pink is the best selling tint, as it shows up well under artificial light. White is also in demand, owing to its use for bouquets and wreaths. Mauve is not so popular now as was the case six years ago. Orange shades are in demand, but they have the drawback of taking the sun too much. Mr. Unwin finds that the darker shades are worthless. He had Mars, Navy Blue, and Black Knight on trial, but the salesmen stated that they could not sell them. The flowers are put in boxes of two or three dozen bunches, and sent to Covent Garden, Manchester, Sheffield, and other centers. In the packing, white paper is used for pink blooms, and blue for other tints.

METHODS OF CULTURE

It is sometimes said that sweet peas will not grow on the same ground year after year, but Mr. Unwin's experience does not coincide with this, for he has grown them to advantage on the same field for eight seasons. Mr. Unwin is a strong believer in autumn sowing. As regards manuring, he recommends horse dung for a clay soil, and cow manure for a gravelly soil, with the addition of a little soot and bone-meal. It is also found that superphosphate is a useful fertilizer for the crop, a good handful to the yard run each side of the row being very helpful. A good mulching of long stable manure is given before the hot weather sets in.

When the plants are up they are lightly dusted along the rows with soot to keep off slugs, and covered with a few strands of black cotton as a protection against birds. When the plants are three inches high hoeing around them is done, and the soil is made to form a mound on each side of the row. In the spring the plants are thinned out to six inches apart, the strongest being left, and sticks are put in. Mr. Unwin believes in rows in preference to clumps. He has not been able to find anything better than sticks for the rows. Sheep wire-netting has been suggested, but this is considered too expensive. The peas grow from six to eight feet in height, and in favorable seasons the cutting commences in the last week in May. It is found that the demand for bloom is somewhat uncertain, a great deal depending upon the weather.

GUERNSEY GLASS CULTURE

This country imports 53,596 tons of tomatoes, and of this quantity Guernsey supplies 13,000 tons. Some time ago I spent a pleasant holiday among the Channel Island growers. It was an interesting sight to see the large expanse of glass-houses filled with marketable crops. It is estimated that there are 4,500 of these structures, and the glass covers 632 acres, the length of the houses if put end to end being 153 miles. Besides this area there are about 300 and 400 acres planted in bulb and flower crops. In the greenhouses the standard crops are tomatoes, followed by beans, with grapes trained over the roofs. The Guernseyman grows three crops to the Englishman's two. The area of the land being restricted and its value high, the most is made of the small holdings available. Last year the island exported over two million packages. More than half the export revenue is derived from tomatoes, which are grown out-doors as well as under glass. One grower who produces tomatoes in the open, states that he makes a profit of £37 per acre. The success of the crop is always an uncertainty owing to the vagaries of the weather. The tomato-seed is sown in boxes in November, the young plants being pricked out and planted permanently early in January and commence to crop about the end of April. From that date to the end of September the crop is a source of activity and profit.

GREEN PEAS UNDER GLASS

For some years good supplies of early green peas have come to Covent Garden from the nursery of Mr. Norman Davis, of Framfield, in Sussex. Mr. Davis expects to have a crop of about 100 bushels this season, and as the prices are usually good, he finds this a profitable line. These are grown in unheated houses, and as soon as the Jersey crop is over, Mr. Davis is able to start picking. In describing his experience in this department Mr. Davis states: "My chief success and what has proved most interesting to me has been the growing of culinary peas under glass in May; these I have grown for several years in sucsession, and no crop has paid me better. Such crops, however, are uncertain unless unusual facilities are at hand, but they require no heat. Notwithstanding the discouragement market-gardeners meet with, such as unfair taxation of glass-houses, excessive railway rates, uncertain markets, and other drawbacks, I am of opinion that there is scope for extended cultivation of choice early vegetables. Englishmen need fear no foreign competition, but one must be quick to learn the requirements of markets." Besides this branch, Mr. Davis has secured fame as one of the leading raisers of chrysanthemums in the country. He has introduced several well-known varieties which have come to the front in recent years.

W. J. Adsett.

London, May 24, 1905.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The abundant rains that have visited all sections of New England within the past two weeks have greatly improved crop conditions and allayed serious apprehensions due to the unprecedentedly light rainfall throughout the entire winter and spring. The season is regarded as nearly two weeks late, but now that copious showers have soaked the ground and revived all vegetation it will not take long to "catch up."

And still another, "The Olympia Florist," goes up in New York to the tune of $3,000 liabilities and no assets. A contemporary naïvely states that all these debts were contracted between April 15 and May 15, this year. Did the dealers who sold so freely to an irresponsible concern take any steps to ascertain its right to such a credit? The time will come when growers and wholesale florists will realize and act upon the necessity for some reasonable general understanding as to who are entitled to credit and how much. That the subject is being agitated is a promising sign.

The Association of Park Superintendents, no longer a local New England institution, honors Buffalo with a visit this year. We think that, when our Buffalo brethren see and realize the character of the gentlemen composing this useful organization and come under the influence of their cheerful and inspiring presence, they will understand the cause of our regret at seeing the society widen out into a national organization, thus depriving us of the pleasure and benefit of these annually recurring gatherings in New England territory, where the society had its inception, with their advantage of close personal contact and the consequent delights of tightly cemented friendships.

New England, with its rugged mountains and rock-bound coast, is destined to become the great vacation resort for the people of a large section of our country in the future. The visit last week of the Portland representatives, to inspect the park system of Boston, shows how strongly the park idea is taking hold of the public and calls to mind the suggested scheme for a State parkway along the coast of Massachusetts, New Hampshire, and Maine, extending from Boston to Portland and perhaps beyond. Already there are many public or semi-public reservations along this section in Massachusetts, and the idea of linking them together as proposed is by no means merely visionary.

There is some foundation, we think, for the opinion expressed in the report of the Hartford Florists' Club committee on window-boxes, that the florists, themselves, are largely to blame that window-box, porch, and veranda-gardening is not more advanced in American communities than it is to-day, and the suggestion that the commercial florist endeavor to stimulate business in this line by preparing and offering window-boxes of various grades for sale is in the right line. Then there is always the certainty of achieving results by the influence of good example. Florists in residential communities do not always give enough attention to the adornment of their own premises. "Shoemakers' wives and blacksmiths' horses may go barefoot" without injuriously affecting their respective industries, but a florist who fails to make the best use of his specialties, about his place of business and his home, robs himself for to-day and for to-morrow.

With this issue HORTICULTURE closes its first volume. Volume 11 will begin with the July 1 number, and in future new volumes will start January 1 and July 1, regularly. We announced our purpose at the outset to cover the field in a different manner from that of any other periodical. A look through the completed volume will show how closely we have adhered to our purpose. It makes a book of 978 pages of *good* reading, most of it as useful to-day and for a long time in the future as when it was written. Reading matter with a permanent value, as is the contents of HORTICULTURE, carries with it an added value for the advertisers, and we doubt not that advertisements in HORTICULTURE's pages will be doing good work long after the "gossip" journals of even date have gone to the waste-box. We feel that we are justified in our pride over our first volume. The second will be as much better as we can make it. If not a subscriber heretofore, begin now, and invite your friends to subscribe also. We offer tempting club rates.

"And what is writ, is writ, — Would it were worthier!"

PHILADELPHIA FACTS AND FANCIES

The building so long occupied by Fred Ehret at Broad and Fairmount avenue is to be torn down to make way for the new Temple College University. The consideration is said to have been $150,000. Mr. Ehret has not yet decided as to his new quarters, but these will doubtless be somewhere in same vicinity.

Augustus P. Dumont, well known in the wholesale cut-flower trade here from his association with his son Horace, died on the 18th inst. aged 73. He was a sufferer for the past year from that dire and painful malady, cancer.

Eighty thousand roses, and good ones at that, Beauties, Brides, Bridesmaids, etc., bought in the open market, were used by a big department store here as souvenirs to their customers for their June opening days. Time was when this would have given the market a boost, but it was hardly noticed in the present enlarged condition of supply and demand.

S. S. Pennock objects to this Ginger Jar paragraph:

"The florist who hasn't time to read the trade papers and keep up with the procession, has generally time enough to hold down a cracker box in the grocery store. I have seen a number of such men in my recent travels."

S. S. owns up to want of "time to read," but objects to "the cracker box" part of the proposition. I cheerfully grant him absolution. He is at the other extreme. The one I meant was the one who had too little to do — not he who had too much. But methinks Sam doth protest somewhat redundantly. I notice that mighty little escapes his attention — not even a Ginger Jar paragraph!

Commodore Westcott, when I last saw him, on the 16th inst. at Waretown, N. J., was having the time of his life entertaining some twenty-five or thirty guests at his seaside club house, the occasion being the annual opening. Among those we remember having seen there were — William Graham, Robert Kift, George Anderson, John Burton, William K. Harris, John W. Dunham, George Redford, Walter F. Ware, Alfred Hoegerle, David Rust, A. Y. Hanna, A. B. Cartledge, William B. Westcott, William F. Gude, Samuel S. Pennock, H. H. Battles, Robert Craig, Robert W. Clucas, George Craig, Henry F. Michell, Charles H. Eimerman, and D. C. Donoghue. Most of the guests stayed over until the 19th. If there be any fish left in Barnegat Bay after these mighty fishermen's visit, it will be queer, or, to quote the poet:

"Can such things be
And overcome us like a summer cloud
Without our special wonder."

An interesting feature of the opening day was the presentation of a handsome onyx clock to the Commodore by his guests. Robert Craig and John W. Dunham made the presentation speeches, and a feeling and eloquent response came from the recipient. Another incident of unique interest was the exhibition of mule-driving by the Commodore while the guests were being brought from the station. White duck pants, a blue and white seersucker coat, a flowing blue tie, and a sailor cap may not be the ideal Jehu costume, but that made no difference. The mules covered the ground with the best of them, and were neck and neck at the finish with the horse flesh.

Fred Muller, 67th and Greenway avenue, has been awarded by a road jury $6,000 damages against the city for change of grade. The appraisers made it $6,900 odd. Mr. Muller is satisfied with the $6,000, and hopes the award will stick.

Out of the Bean Pod

"And better had they ne'er been born,
Who read to doubt, or read to scorn."

John Barr, of South Natick, is erecting a dwelling of fourteen rooms, adjacent to his greenhouses.

Florists from Stoneham and Woburn are suffering from the rash occasioned by the brown-tails. Probably some of them will be a little more enthusiastic in the work of extermination hereafter.

I want to say a few words in favor of that much-abused bird, the English sparrow. A field of carnations set out in May, was badly infested with cutworms. As we were cultivating, I noticed several sparrows busily employed, and upon close inspection, we found them engaged in carrying away the cutworms. Frequent cultivations, with the assistance of the sparrows, have almost entirely exterminated the worms in the field. I'll take off my hat to the sparrow hereafter. He did his work well.

The season for native strawberries is once more here. At this time I always anticipate with pleasure a trip to Lincoln to call on my old friend, Charles Lunt, proprietor of Pine Grove Farm, and in my judgment one of the best authorities on small fruits in this part of New England. Brother Lunt is an enthusiastic strawberry cultivator and his berries are among the finest shipped to the Boston market, according to the report of his commission men, Hall & Cole, of Faneuil Hall Market.

THOS. F. MATTHEWS

BALTIMORE ITEMS

Under a graceful bower of stately palms at St. Mark's Catholic Church, Catonsville, on Thursday afternoon, the 15th inst., at 3 o'clock, Mr. Joseph W. Cook, one of our young florists and growers, was married to Miss Marie H. Scharff. Large palms of different varieties were conspicuously distributed about the chancel, while Harrisii lilies, marguerites, and crimson rambler roses, blended artistically with the background of green, the whole producing a beautiful effect. The chancel rail was also artistically arranged with cut flowers of various descriptions, the color scheme being red and white. Mr. Cook is the second eldest son of Mr. John Cook, one of the leading growers of the State, and is associated with his father in business at 318 N. Charles street. With his young bride he is now on a northern wedding tour and upon his return will take up his duties at their extensive nurseries on Edmondson avenue. We wish him success.

Owing to the lull in business, the beautifully arranged branch office of Messrs. Samuel Feast & Sons, in the main corridor of the Hotel Belvedere, was closed this week for the summer season. The establishment of floral stands in hotel corridors, while a very old custom in New York, Philadelphia, and other large cities, is a new experiment in the floral life of Baltimore. The demand for such convenience at leading hotels was so much in evidence at the opening of last winter's season, that Messrs. Feast & Sons, as an experiment, established a high-class branch office at the Belvedere. The project far exceeded the expectations of the experimenters, and the custom promises to become a very prominent feature in the floral life of Baltimore in the future.

T. E. DOYLE.

SAN FRANCISCO NOTES

This forenoon, June 14, a representative committee of the Pacific Coast Horticultural Society met with a representative committee of the California State Floral Society, the result being a coöperative association for the single purpose of making an "all together" pull for the success of the show of fall flowers, an event originally planned as an undertaking of the Floral Society alone, as announced in HORTICULTURE last week. The date for exhibit was fixed at to-day's meeting for November 9, 10, and 11.

Growers and florists hereabout seem to be unanimous in expression that the scientific world will be startled by an announcement made this week by Professor C. M. Woodworth, who is in charge of the entomological work of the University of California's college of agriculture. The announcement is the discovery of a new species of centipede in the Sacramento Valley, the great central district of California's asparagus-growing section, and that this new pest in the field of horticulture is preying upon asparagus plants, threatening the destruction of hundreds of acres of the crop. And the marvel of it all is, according to Professor Woodworth, that it has not been known hitherto that centipedes preyed upon vegetable life; that in all the literature dealing with the subject the centipede family is rated as carnivorous, yet, after personal inspection, says the professor, the fact is unquestionable that California has a new sort of the centipede family that is attacking asparagus beds in the Sacramento Valley, devastating the fields and striking despair to the hearts of the growers — a distinctly new contribution to the history of the centipede tribe.

Some one or another of the big down-town florists has been in the habit of getting about all the swell decorations as they have happened along, but last week these down-towners magnanimously agreed that a break in the custom had occurred, that the swellest of this month's decorations showed the artistic handiwork of "The Blocks," the trade title of a new flower-stand recently established by Miss Hulda Block and her brother Ben, far away from the down-town florists' district. It was a large church decoration, the occasion being annual confirmation services held in Temple Emanuel, the largest church in the city. The altar and choir balcony were a mass of La Marque roses. In front on either side of the altar stood a fifty-foot high tree, the branches being made up to represent trees of La Marque roses, and with long branches of these blooms the massive chandeliers were tastily draped. Immense vases of Bermuda lilies also appeared in the altar setting. From the ceiling, eighty feet high, were suspended by invisible wires seven huge South Sea Island fern balls, each ball having a diameter of from twelve to fifteen feet.

PERSONAL

Mr. A. Lange, wife and son, of Chicago, will sail on *S. S. Kronprinz*, June 27, for an extended trip to Europe to be gone for three months.

On a fishing expedition to Manitowisch and northern Wisconsin are Messrs. N. J. Wietor, Adam Zender, John Muno, and Henry Muno of Chicago, to be gone for ten days.

W. R. Smith of Washington is visiting Boston this week. He imparts the surprising information that he has been elected vice-president of the society of the oldest inhabitants of Washington. If this sprightly representative of the Capitol City is a sample of the "old" inhabitants, what are the young ones like? Mr. Smith expects to sail for Scotland on the *Parisian*, July 6.

AMERICAN PÆONY SOCIETY

THE EXHIBITION

A beautiful June day greeted the pæony enthusiasts, on the opening day of the Pæony Society's great show in Chicago's Auditorium Hall, famous for its flower shows and its beautiful mural decorations. Such array of colors was never before equaled. The plan of arranging each exhibit to produce an artistic effect, while it increased the judges' work, was, indeed, a great pleasure to the eye, and we can only congratulate the manager and exhibitors on their initiative and enterprise which eclipsed all the artistic splendor of previous shows.

The blooms of distant exhibitors, some of which had been in cold storage for some time, were of remarkably fine quality, and were a good test of lasting qualities and of how to cut pæonies for that purpose. Home-grown stock, the season being at its height at Peterson's Nursery, had an advantage; however, their stock was perfection in itself. Peterson's Nursery showed 210 varieties, named and numbered; E. A. Reeves, Cleveland, O., 2 varieties, named; Vaughan's Seed Store, 25 varieties, all named; J. F. Rosenfield, West Point, Neb., 38 varieties; C. W. Ward, Queens, N. Y., 180 varieties, all named; Jewell Nursery Co., Lake City, Minn., about 20 varieties; and Klehm's Nurseries, Arlington Heights, Ills., a collection. Dozens of visitors carried note books in hand, great interest being centered in Peterson's Nursery entry. The winner of the silver cup in class 10 in this well-grown collection were Marie Lemoine, Festiva Maxima, Madame Cabot, Potsii Alba, Golden Harvest, Delicattissima, Princess Beatrice, Modele de Perfection, Modeste Guerin, Marechal de MacMahon, Purpurea Delachei, and Livingstons. This last named variety also took first prize for best 100 blooms of pink.

The first prize for best 100 crimson was awarded to E. A. Reeves for Lee's Grandiflora Rubra, which shared first honors with C. W. Ward's Monsieur Jules Elie. C. W. Ward's Augustine d'Hour was greatly admired.

Among the visitors were C. W. Ward, Queens, N. Y.; Miss Hubbard, Queens, N. Y.; Mr. and Mrs. F. Lemon, Richmond, Ind.; E. G. Reeves, Cleveland, O.; C. S. Harrison, York, Neb.; A. H. Fewkes, Newton Highlands, Mass.; Robert George, representing Storrs & Harrison, Painesville, O.; W. C. Barry and Mr. Maloy, Rochester, N. Y.; Elmer D. Smith, Adrian, Mich.; H. E. Kidder and E. Slye, Ionia, Mich.; F. A. Baller, Bloomington, Ill.; Eli Cross, Grand Rapids, Mich.



AMERICAN PÆONY SOCIETY EXHIBITION AT THE AUDITORIUM, CHICAGO

JUDGES' REPORT

CLASS 1. C. W. Ward, 1st prize; Vaughan's Seed Store, 2d.

CLASS 2. Peterson's Nursery, 1st; Vaughan's Greenhouses, 2d. Rosenfield entry disqualified because of insufficient number of blooms.

CLASS 3. Peterson's Nursery.

CLASS 4. Peterson's Nursery.

CLASS 5. Peterson's Nursery.

CLASS 6. J. F. Rosenfield, 1st; Peterson's Nursery, 2d.

CLASS 7. Peterson's Nursery.

CLASS 8. Peterson's Nursery.

CLASS 9. Peterson's Nursery.

CLASS 10. Peterson's Nursery (silver cup).

CLASS 11. Vaughan's Seed Store, 1st; Peterson's Nursery disqualified on account of insufficient number of blooms.

CLASS 12. Peterson's Nursery, 1st, with Livingston; J. F. Rosenfield, 2d, with Floral Treasure.

CLASS 13. E. A. Reeves, 1st, with Lee's Grandiflora Rubra; J. F. Rosenfield, 2d, with seedling No. 206.

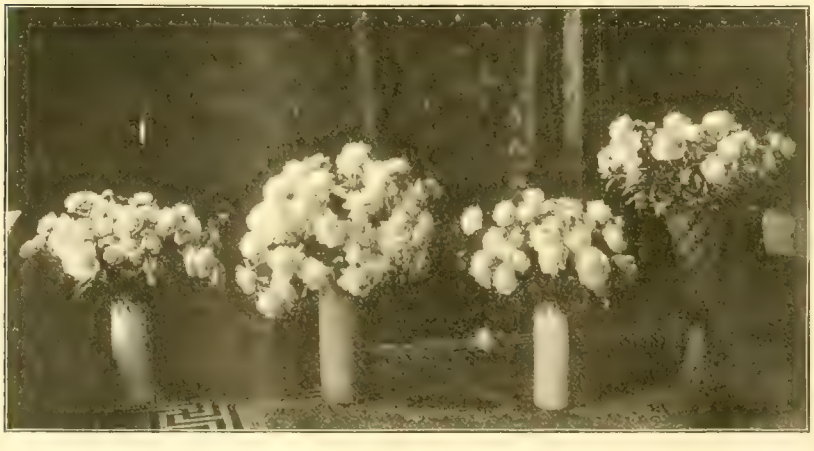
Honorable mention, C. W. Ward, for extensive collection of pæonies.

Honorable mention, Vaughan's Seed Store, for fine collection of herbaceous blooms and Baby Rambler rose.

Honorable mention, Klehm's Nursery, for collection of pæonies artistically arranged.

Honorable mention, Jewell Nursery Co., collection of pæonies.

Ionia Pottery Co. made a display of florist's pots and dishes.



MODELE DE PERFECTION, FLORAL TREASURE, LIVINGSTONE, MONS. JULES ELIE

THE MEETING

The session opened Saturday, 11 A. M., with fair attendance, President C. W. Ward in the chair.

Chas. Klehm, P. J. Hauswirth and E. A. Kanst were selected as judges.

President's address which follows herewith, was next presented.

PRESIDENT'S ADDRESS

Fellow-members: It has now been two years since the organization of the American Pæony Society, and to those who thought that there was no need of such a special society to care for the interests of the pæony, the success of the present magnificent exhibit should be ample proof that the society was not only needed, but really wanted, for it is by such exhibitions as these that we who are devoted to the interests of any special class of floriculture really learn the possibilities that exist when concentrated effort is made to develop all that there may be contained in any special subject.

This is practically the first exhibition of pæony flowers given under the management of our society and what has been done here to-day can be much improved upon in future efforts, for by experience we learn, and the experience leading up to the staging of the present show has already taught us many things that will redound to our benefit in the future and will enable us to stage increasingly interesting exhibits as the years roll by.

No doubt the officers of the society will be somewhat sharply criticised for not providing essays to be read before this meeting, and while not attempting to offer excuses for such lack, I wish in connection with an apology which we offer to members of the society, to say that unfortunately prior to the season at which the pæony show is possible, almost all of the members of our society are driven to exert their utmost energies in order to properly care for the year's business which must be done practically in the two or three months of spring.

One of the crying needs of such an association as ours is the surprisingly chaotic state into which the nomenclature of the pæony has been allowed to degenerate, and

if this association should do nothing else than straighten out in a passable manner the nomenclature of the pæony, striking from the list duplicate or nearly duplicate and worthless varieties, and render it possible for the trade to list fifty or sixty of the best sorts under names and descriptions that would render their identification certain and make possible extensive deals between different pæony growers, insuring the buyer of getting exactly what he wants whenever he places an order, and then should disband, it will have accomplished one of the greatest benefits to floriculture in general and amply repay for all the effort put forth and expense incurred in its organization and maintenance. Realizing the importance of this question of nomenclature, a competent nomenclature committee was appointed and has already accomplished a long step towards straightening out the tangle which has been the source of annoyance and a bane to us all who have attempted to purchase pæonies. I now refer to the extensive test plot at Cornell University which has been planted with upwards of a thousand varieties of pæonies, all of which have been contributed by its members without one cent of expense being incurred by the society. It is a foregone conclusion that this attempt to straighten out the pæony nomenclature, undertaken under the auspices of Prof. John Craig of Cornell University, whose careful and efficient work performed in other lines is ample guarantee for the thoroughness with which this work will be done, will be productive of great results and will place the entire fraternity under obligations not only to Prof. Craig but to Cornell University and lastly but not least, to the American Pæony Society itself.

Fourteen years ago, when I first began growing carnations, they were usually sold upon the market under the designation of red, pink, white, pinks. So far as I know, very few varieties had at that period produced a sufficient impression upon the buyers to be asked for under distinctive names. However, soon after the formation of the American Carnation Society they began to be designated by special names, and at present time retail buyers generally ask for the President, Enchantress, Ethel Ward, or any other variety they wish to purchase, because thereby they identify those blooms which best satisfy their tastes and purposes, and it will not be long before this will be the case with the pæony. At present Festiva Maxima is known upon the New York market as the big white pæony, and all other white varieties are simply designated as white pæonies; but within a comparatively short period buyers will begin to call for Mont Blanc, Festiva Maxima, Mons. Dupont, Marie Lemoine, and other named varieties, because they will want to secure just the effect produced by those sorts and will be able to identify them under their proper titles.

For some years past, the value of the



C. W. Ward, President American Pæony Society



A Field of Pæonies at the Cottage Gardens
Mont Blanc in the Foreground



PÆONY WHITLEYI OR QUEEN VICTORIA

pæony for cut-flower purposes has been recognized in the larger markets, such as Chicago, New York, Boston, and other large cities, but up to the present time there seems to have been no organized effort made to place the most suitable varieties on sale, and a large proportion of the blooms offered seem to have been of the more common kinds composed largely of undesirable shades of color, the result being that the color-value of the pæony has suffered somewhat in popular estimation. In a few years all this should be changed, and a sufficient quantity of the most attractive sorts that are best suited for cut-flower purposes should be grown to supply the needs of the market, and when this occurs the demand for pæonies for cut-flower purposes will be largely increased.

The difficulties of accumulating a large stock of the better varieties that shall prove true to name are great indeed, because owing to the chaotic state of pæony nomenclature at the present time, no one is sure of getting what he orders, unless he is able to visit the pæony fields in blooming time and identify and mark the plants he desires. A somewhat extensive experience in purchasing pæonies during the past ten years has developed some curious results. For instance, in one case a grower sent two absolutely different colors under the same name. This occurred with the pæony Henry Murger. The true Henry Murger is described as an immense bloom of the form and color of the Paul Neyron rose. The first year that the firm in question sent us Henry Murger we got a tall growing, deep purplish crimson, which as yet we have been unable to identify. The following year they sent us a very double creamy white sort, which bore no resemblance either in habit, form, or color to the one sent before. Neither of them resembled in any respect either in habit, form, color, or time of blooming the true Henry Murger. In another case a totally different pæony in point of habit, form, and date of blooming was sent, but of the same shade of color as the genuine variety ordered. The second year from the same firm came, under the same name, another lot which again did not resemble the true variety either in form, habit, or date of blooming, but still of the same shade of color and neither of these varieties resembled in any respect the true variety either in form, habit, or date of blooming with the exception that the shades of color were very close to the true variety. After an extensive experience in attempting to accumulate considerable stock of the specially desirable varieties, I have come to the conclusion that the only practical way to work up a true stock is to purchase a moderate quantity of the sorts from some source where you are able to identify them as true, and then after blooming the plants three years cut out all rogues which may develop and look after the propagating and division of the stock yourself, for I have found where you leave it to employees, they, not having the same interest in keeping the stock clean that you have, will allow errors to slip in. A rogue once introduced in a stock frequently multiplies twice as rapidly as the true variety, the result being a large proportion of rogues when the stock has been considerably augmented. In Holland the custom is to take up pæonies and divide them every year or two, consequently the plants are never seen in bloom and this mode of forcing the propagation is probably the reason why so many rogues are found in the general run of Holland pæonies imported to this country.

The pæony in landscape work. Undoubtedly our favorite flower is one of the most effective of all early flowering herbaceous plants for use in extensive landscape plantings. It not only can be used in masses, producing grand color results, effectively lighting up dark nooks and corners, but they can also be interspersed among shrubbery, lending additional color to such groups. The plants when out of bloom are not very unsightly as is the case with many other herbaceous flowers, but the deep fresh greens and bronzy greens of the pæony foliage are maintained in general good condition throughout the greater portion of the season. The range of pæony colors is unexcelled, comprising almost all the shades of pink, from the most delicate flesh tints to the deepest shades. The same may be said of white, crimson, purple, and amaranth. It is weak, however, in yellow as we have comparatively few sorts that might be termed yellow and these are generally light in color, the guard petals being almost invariably white, and it cannot be said that there is as yet any true solid yellow pæony.

Landscape-architects should learn to know the pæony better, and should become acquainted with the finer and more desirable sorts and should use them more extensively hereafter than they have in the past. I am quite certain that the pæony often suffers in reputation by the use of common undesirable colors in classes of work where good, clean, complementary colors are needed and should be used, and the pæony will never take its proper place in landscape work until landscapers in general become better acquainted with the more desirable sorts and learn to know them as well as to use them.

It is to be regretted that an unfortunate controversy arose over the formation of the American Pæony Society, resulting in forming within the ranks of the Society of American Florists the S. A. F. Pæony Society, or Pæony Committee, as it has more recently been called, giving color to the idea that the Society of American Florists was opposed to, and endeavoring to kill off our association. I have been led to believe that it has been asserted by certain elements in the Society of American Florists that the formation of the Carnation Society, the Chrysanthemum Society, the Pæony Society and other special associations would in the end destroy the Society of American Florists. This I do not believe to be true, and I cannot see any other result from the organization of such special societies than an increased general distribution of flower and plant knowledge among the general public, which in the end will result in increased accession to the ranks of the Society of American Florists. It may be asserted with truth that the Pæony Society has not now, nor will it have in the future, any conflict with any other horticultural body, but it has been formed for the purpose of accomplishing certain special

work that can be done only by and with the hearty coöperation of all of those most vitally interested in the pæony. Personally, I am well satisfied that our association will gladly contribute to the archives of the Society of American Florists, or to any other horticultural body that makes for the good of the florist craft in general, the results which it may accomplish in the way of straightening out pæony nomenclature or any other results which may be considered generally beneficial to the craft. Neither the Pæony Society nor the S. A. F. Pæony Committee has had as yet any great measureable effect upon the increase in the demand for pæonies, for the reason that neither have up to the present time, accomplished any definite advancement either in the improvement of the pæony, or the methods of its culture, or its commercial handling. Aside from a few articles and cultural notes appearing in the press, nothing tangible has gone forth to the general public and these articles have not as a rule eminated either from the Society of American Florists or from the American Pæony Society. Whatever results have been accomplished up to the present time have been largely through the work done by the pæony specialists who are giving their time to the culture of, and investing their capital in pæonies.

The experimental pæony plantation at Cornell University has been made possible only by the voluntary contributions of the principal pæony specialists in America and Europe, who are members of the American Pæony Society.

Reverting again to the unpleasant things which have been said and done in connection with the formation of our society, it may well be said that all opposition and controversy should now cease. The work of the Pæony Society has been so definitely cut out and clearly defined that the few doubting and misguided spirits within the ranks of the Society of American Florists, who have heretofore frowned upon our organization, should now cease their antagonism and bend their efforts towards forwarding a work that will in the end redound to the general welfare and benefit of the entire florist craft as well as the nursery fraternity.

Report of secretary was as follows:

The present membership of the society is thirty-six, not including two honorary members. Since the last meeting, the president has appointed two European representatives of the nomenclature committee, Mr. Dessert, Chenonceaux, France, to represent that country, and Mr. August Koenemann of Neiderwald, Germany, to represent the latter.

During the past year I have had considerable correspondence in regard to pæony lists with the object of completing our preliminary list, but there are some which are still to be received before it can be published. The publishing of the report of 1903-1904 has also been delayed for unavoidable reasons. In the matter of the incorporation paper Mr. Lown, the attorney, reported to me that the certificate of incorporation was filed in Albany, N. Y., July 2, 1904, and a certified copy was deposited at N. Y. County clerk's office, thereby completing the legal incorporation of the society.

The exhibition held during the meeting at New York was a fairly good show, there being about seven exhibitors, staging many fine flowers, but there was a great lack of names, thereby reducing the value of the show. C. W. Ward showed about two hundred sorts, all unnamed but under numbers. Frank Gould, with John J. Morris, Chestnut Hill, Phila., Pa., sixty-three varieties all named. Andorra Nurseries, Chestnut Hill, Pa., twenty varieties, all named. Siebrecht & Son, a large display of unnamed flowers, including about thirty-two varieties. C. Betscher, Canal Dover, forty varieties, all named. C. M. Wild, Sarcoxie, Mo., ten varieties, and F. S. Rosenberg, Walden, N. Y., about eighteen vases unnamed.

Report of treasurer was as follows:

TREASURER'S REPORT

Balance on hand June 4, 1904 . .	$175.50
Receipts advance admittance fees .	15.00
Yearly dues	39.00
Interest	3.55
	$233.05

Expenditures as per Secretary's Order

Account of F. B. Lown .	$21.40	
Account of Arthur Bryant	2.52	
		$ 23.98
Balance		$209.07

Report of committee on nomenclature (already published) was next presented.

Boston, Mass., was selected as the next meeting place.

A motion to send all flowers to the Cook County Hospital at the close of the show was adopted.

Officers were elected for next year as follows: President, C. W. Ward; Vice-President, W. A. Peterson; Secretary, A. H. Fewkes; Treasurer, J. H. Humphreys.

E. A. Reeves succeeded himself as director.

A vote of thanks was tendered to J. B. Deamud, manager of the show.

MASS. HORTICULTURAL SOCIETY PÆONY SHOW

The pæony show of the Massachusetts Horticultural Society, postponed from June 10 on account of the backward season, was held on Saturday, June 17, and was a worthy attraction for a large number of lovers of this indispensable old garden favorite. The best products of Kelway, Dessert, Lemoine, Crousse, Richardson, Hollis and the horticulturists of the Flowery Kingdom were seen in great profusion. The best display — one that has probably never been equaled in any previous shows here — was that of E. J. Shaylor. T. C. Thurlow was also in evidence as usual, with a superb collection in which the singles were especially notable. H. A. Stevens Co. also staged a gorgeous group winning the Kelway silver gilt medal; the bronze medal went to Miss A. M. Means. For a collection of thirty varieties the prizes were won in order as listed, by T. C. Thurlow, H. A. Stevens Co., George Hollis, and Dr. C. S. Minot. For collection of twelve varieties double; O. B. Hadwen, George Hollis. Twelve single; T. C. Thurlow, George Hollis. Twelve Japanese single; George Hollis. Specimen double; T. C. Thurlow with Mme. Boulanger, and the same exhibitor with Lady Alex. Duff. Large vases of blooms were shown by Mrs. J. L. Gardner, Blue Hill Nurseries, and E. L. Lewis. E. J. Shaylor received certificates of merit for Germain Bigot and Mme. Theyeran, both Dessert productions, and T. C. Thurlow for White Lady. Mr. Shaylor received honorable mention for M. Martin Cahuzac, a dark claret of Dessert's. Beautiful indeed were the varieties thus singled out, and there were others well worthy of high honor, such as Lady Alex. Duff, Lady Bramwell, Mme. de Vernville, a lovely white with the fragrance of a June rose, Festiva Maxima which holds its own everywhere, Pottsii alba, the "Decoration Day variety," Claire Dubois, Livingston, Mme. Lebon and Mons. Dupont which is almost a facsimile of Festiva Maxima. Besides the above named exhibitors, E. A. Clark, Wm. Riggs, gardener, Mrs. E. M. Gill, Wm. Nicholson, E. A. Wood, and R. & J. Farquhar & Co., contributed pæonies in quantity, the Blue Hill Nurseries showed hardy perennials, and Warren Heustis & Son boughs of trees and hardy shrubs.

MONMOUTH COUNTY, N. J., HORTICULTURAL SOCIETY

The annual rose and strawberry show of this society was held in Red Men's hall, Oceanic, on June 16th. The following prizes were awarded — Collection hybrid teas, 1st prize, George Hale, 2d, N. Butterbach; collection hardy garden roses, George Hale, 1st, H. Kettel, 2d; twenty-five varieties H. P. roses, George Hale, 1st; twelve varieties H. P. roses, W. Dowlen, 1st, George Hale, 2d; six tea roses, N. Butterbach, 1st; two vases sweet peas, two varieties, George Hale, 1st, W. W. Kennedy, 2d; one vase sweet peas, two varieties, James Kennedy, 1st, H. Kettel, 2d; collection and display of strawberries, George Hale, 1st, William Dowlen, 2d; one plate, one variety, George Hale, 1st, F. Brunton, 2d.

The society's certificates were awarded to Messrs. Butterbach and Hale for foxgloves; George Hale for collection of pæonies; H. Kettel for mignonette; William Turner for carnations and herbaceous flowers; William Dowlen for poppies; James Kennedy for roses; Mr. Longstreet for lettuce; A. Strothmeyer for advance vegetables; F. Brunton for general display; James Dowlen, for cauliflower and one for the Dowlen's new roses. Late in the evening many of the vegetables were sold at auction and brought good prices.

PENNSYLVANIA HORTICULTURAL SOCIETY

Sweet peas and Japanese iris were the features of the monthly meeting of the above society on the 20th inst. Competition was keen in the former, and a grand display of the latest and most improved varieties was staged. For the Dreer Prizes, Wm. Robertson, gardener to John W. Pepper, Jenkintown, Pa., took first, and John McCleary, gardener to Mrs. R. J. C. Walker, Germantown, Pa., second — best bunch each of twenty-one varieties. For the Michell Prizes, William Robertson took first, and John McCleary, second, for fifty sprays each, twelve varieties. For best vase of mixed, James Coleman, gardener to Walter Lippincott, Bryn Mawr, Pa., took first, and Samuel Hammond, gardener to Rudolph Ellis, Haverford, Pa., second. For best vase of Gladys Unwin, 25 sprays, the prize went to Ernest Schreiber, gardener to Mrs. W. L. Elkins, La Mott, Pa. Certificates of merit were awarded to Joseph Hurley for poppies, lilies, and campanulas; to W. Fowler, gardener to Mrs. Charles Wheeler, Bryn Mawr, Pa., for delphiniums and lettuce; and to Samuel Batchelor, gardener to C. B. Newbold, Jenkintown, for Nicotiana Sanderæ. The prizes offered by Dreer for Iris Kæmpferi brought out some fine exhibits, first going to William Robertson, second to Joseph Hurley.

NEW HAVEN HORTICULTURAL SOCIETY

A meeting of this society was held on June 20th. The night was known as rose-night. Mr. Ernest Carroi, gardener to N. W. Kendall, read a very interesting and instructive paper on the hardy varieties, which was followed by a general discussion.

The society has about 125 members, and is constantly increasing. The Board is now preparing for the exhibition, which will be held November 7, 8, 9.

WORCESTER COUNTY, MASS., HORTICULTURAL SOCIETY

The Worcester County (Mass.) Horticultural Society's exhibition on Thursday, June 15, was made memorable by a remarkable display of pæonies staged by E. J. Shaylor. The collection included nearly one hundred varieties, many of them rare.

George McWilliam showed Lilium Philippense. There was an attractive general display by several other exhibitors.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The closing meeting of this flourishing club until after the summer vacation, was held at Horticultural Hall, Boston, on Tuesday evening, June 20, with between eighty and one hundred members present. It was a fitting climax for a season of popularity and useful prosperity, on which President Wheeler may well be congratulated. The membership is still on the increase, nine new names having been proposed and accepted on this occasion.

M. H. Walsh, of Wood's Hole, was the speaker of the evening, and he presented one of those practical papers, the product of his ripe experience in rose culture, which he is so well qualified to prepare. The paper was just such a one as might be expected from this intelligent and observant expert, touching every essential cultural point and emphasizing throughout the value of painstaking care on the part of the rose-grower if he would have plants and blossoms of which he might be proud. After the reading of the paper, Mr. Walsh was plied with many questions, which he answered. Among them was an inquiry as to the comparative value of budded and own-root stock for the production of exhibition blooms in the garden, and he unhesitatingly replied that he had never seen roses on their own roots produce flowers of a size to rival those got from budded stock. He spoke also of the value of root pruning, every six or seven years, which, he insisted, was of equal importance with wood pruning, if good flowers are to be produced. He received a very enthusiastic vote of thanks. We hope to present his valuable paper in one of our early issues.

On the exhibition tables were some very interesting displays, and Messrs. Elliott, Walsh, Pettigrew, and Finlayson made a special report on them as judging committee. The new method of judging and manner of making awards proposed by Mr. Farquhar, having been finally approved at this meeting and intrusted to the executive committee to be put in operation next fall, no distinctive awards were made on this occasion. The exhibits included a table of 50 superb H. P. rose blooms and a plant of Mr. Walsh's beautiful double pink climber, Lady Gay; a phenomenal plant of Begonia Gloire de Lorraine, that had been blooming continuously in one pot for 2½ years; a display of seedling polyantha roses, and Clematis erecta from the Boston park department; some fine examples of Richardson seedling pæony and hybrid aquilegias from R. and J. Farquhar & Co.; fine H. P. roses from W. J. Clemson; a group of seedling rugosas from Rea Bros.; big vases of Spanish iris and hybrid aquilegias from W. N. Craig.

It having been announced that news had been received of the award of a gold medal in England to Mr. Walsh's Lady Gay, hearty congratulations were extended to that gentleman, who jocularly informed the club that if hereafter his seedlings were not adequately recognized in this country he would promptly send them to England.

Secretary W. J. Stewart and W. H. Elliott addressed the meeting on behalf of the coming convention of the S. A. F. at Washington, and urged that the club send a good representation. It was announced by the president that on July 1 the club would, on invitation, visit the greenhouse of William Sim at Cliftondale, and that on July 25 there would be a picnic of which fuller details would soon be communicated. After the close of business, a bountiful collation of strawberries, cake, and coffee was enjoyed, and Frank B. Cannell again entertained the meeting with two bass sea songs, superbly rendered.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY

The June meeting of this society was held in their rooms in Madison on the 14th inst., and was well attended. The monthly exhibit of flowers, fruits, and vegetables, was of a high order. A. Herrington showed three vases of roses, two of sweet William, two of sweet peas, and a magnificent collection of digitalis, securing a certificate of merit. J. Heeremans, gardener to A. R. Whitney, showed a fine dish of Gradus peas and a dish of strawberries of the Sharpless type, but more rounded, and thoroughly colored. They were uniformly of the largest size; cultural certificate was awarded. Robert McMullen, gardener to Mrs. J. F. Stone, staged a fine collection of hybrid roses and a vase each of the three rambler roses, crimson, white, and yellow, getting cultural certificate. The judges were Messrs. Duckham, Vince, and Totty.

President Heeremans by request then read a paper on the culture of the herbaceous calceolaria, which was accorded a hearty vote of thanks.

The new schedule for the Fall Show was in evidence. Nearly $500 are slated in the prize list, which is considerably in advance of last year. There will be no meetings in July and August, which will give time to grow the stuff and get the money.

E. REAGAN, *Sec'y.*

TARRYTOWN ROSE SHOW

The sixth annual June exhibition of the Tarrytown Horticultural Society was held in the Lyceum Building on June 13. In spite of the excessively dry season, the exhibits were quite up to the high standard of former years, which showed that the hose had been kept going pretty freely. The show was under the able management of David McFarlane and was very tastefully arranged. The attendance, always good, was even better than in former years, the hall being well filled in the afternoon and crowded in the evening.

Following is a list of the principal prize winners — In the rose classes Mrs. George Lewis, James Ballantyne, gardener, won out for the best vase of 25 blooms and for the best display of climbing roses. Mrs. J. B. Trevor, Howard Nichols, gardener, for the best collection and the best six varieties, 6 of each. For three varieties, 6 of each, the first prize was won by the Misses Masters, Henry Kastberg, gardener, and for 12 blooms, any one variety, Mrs. Ogden Codman, Frank Luckenbacher, gardener, was first. In hardy perennials William Rockefeller, George Middleton, gardener, was first and Mrs. O. Codman second. In strawberries, Mrs. Trevor was first for the best three quarts and the best quart, while Howard Willets, A. Weisenberger, gardener, was first for the best two quarts. Samuel Untermeyer, John Featherstone, gardener, won out with a splendid collection of hardy shrubs. Mrs. George Lewis was first for a collection of sweet peas and first for collection of antirrhinums. In vegetables Mrs. J. B. Trevor and Mrs. Codman were the principal prize winners.

Samuel Untermeyer exhibited a beautiful table of fancy leaved caladiums, also a nice collection of greenhouse fruit. A fine vase of Spanish iris and a splendid vase of sweet peas were exhibited by Mrs. John H. Hall, Francis Gibson, gardener, to which special prizes were awarded.

The F. R. Pierson Co's exhibit, which added greatly to the beauty of the show, included shrubs and herbaceous plants, Marguerite, Queen Alexandra, New Rambler Rose, Leubstern, and their beautiful Tarrytown fern.

WM. SCOTT, *Cor. Sec'y.*

THE NEW JERSEY FLORICULTURAL SOCIETY

The annual rose show of the New Jersey Floricultural Society took place on Wednesday, June 14, in the society's rooms in Orange. The staging provided was entirely filled with roses interspersed with herbaceous blooms, which lent a pleasing variety to the exhibits tastefully arranged under the direction of president D. Kindsgrab. Two classes were provided: Class No. 1, Best 24 roses, in six varieties; Class No. 2, Best 12 roses in three varieties. The first prize in each instance was won by D. Kindsgrab, gardener to William Runkle, with Countess of Oxford, Alfred Colomb, Margaret Dickson, Fisher Holmes, John Hopper, and General Jacqueminot, and Ulrich Brunner, Mrs. John Laing, and Mme. Luizet. The second by Peter Duff, gardener to John Crosby Brown, with Countess of Oxford, Mrs. R. G. Sharman Crawford, P. Camille de Rohan, Capt. Hayward, Baroness Rothschild, and Ulrich Brunner, and Mme. Testout, A. Colomb, and Mrs. John Laing.

Among those entered "not for competition," and rewarded with certificates were, Treadwell Cleveland, Roland Ruddock gardener, for nine vases of roses, eleven varieties, also delphinium and sweet william, first-class certificate. O. D. Munn, John Hayes, gardener, three vases of moss roses, certificate highly commended. A. C. Van Gaasbeck, William Bennett, gardener, vase of rose Caroline Testout and vase of carnations, certificate highly commended. Sidney and Austin Colgate, William Read, gardener, vase of mixed carnations and two vases of roses, certificate of merit. Stewart Hartshorne, Arthur T. Caparn, gardener, vase of white iris, a first-class certificate, vase of delphinium, certificate of merit, also cherries and strawberries. The judges were Malcohn MacRorie, Arthur T. Caparn, and John Rolley, superintendent of Prospect Park, Brooklyn. The show was open free to the public who patronized it well through the evening.

J. B. DAVIS.

SOUTHERN CALIFORNIA HORTICULTURAL ASSOCIATION

As the result of a trade caucus meeting called early this month by J. C. Vaughan, president of the Society of American Florists, a permanent organization resulted last week in Los Angeles, entitled Southern California Horticultural Association, officially equipped as follows:

President, Captain F. Edward Gray, Los Angeles; first vice-president, John Bodgers, Gardena; general secretary and botanist, Ernest Braunton, Los Angeles; recording secretary, W. J. Bodgers, Los Angeles; treasurer, Jacob Dieterich, Los Angeles; horticultural chemist and entomologist, Dr. A. Davidson, Los Angeles; executive committee, F. H. Howard, Los Angeles, chairman, Walter Raymond, Pasadena; D. R. Woods, Wilmington; Miss Etheline Lord and Miss Waite, Los Angeles. Also these county vice-presidents: For Los Angeles County, Edward H. Rust, South Pasadena; San Diego County, Miss K. O. Sessions, San Diego; San Bernardino County, Sidney Hockridge, Redlands; Orange County, Fred Rafferty, Santa Ana; Riverside County, Charles Howard, Riverside; Santa Barbara County, Robert Armstrong, Santa Barbara, and for Ventura County, Samuel Cole, Ventura.

KENTUCKY SOCIETY OF FLORISTS

The regular meeting of this club was held on Tuesday evening, June 13, at the store of William Walker, Louisville, with a fairly good attendance. The sweet pea show has been declared off for various reasons.

A VISIT TO HARTFORD'S FAMOUS ROSE GARDEN

Have you noticed in the garden
Whom the flowers bend to greet?
Have you seen the gallant tulips
Spread their cloaks before her feet?
Have you seen the modest lilies
Turn — still paler as they pass?
They're preparing for her coming,
Sprinkling perfume through the grass
See, the butterflies are poising
Daintily above her throne,
With their fairy wings to fan her
When she comes to rule her own.
Hear! The joyous bees are humming,
"She is coming! She is coming!"
She is crowned with sunshine golden
And her heart is golden too,
To her garden kingdom coming,
Is the royal queen and true.
Ring out, harebells! Ring out, bluebells!
Set the garden all a-tune,
For Queen Rose is crowned in sunshine
In the royal month of June.

— *Boston Herald.*

The executive committee of the American Rose Society in acceptance of the invitation of Superintendent Theodore Wirth and the Hartford Florists' Club, met in Hartford, Conn., on Monday, June 19, and, it may truly be said, had the time of their lives. There were in the party President Alex. Montgomery and Robert Montgomery, Natick, Mass.; Secretary, W. J. Stewart, Boston; Robert Simpson, Clifton, N. J.; A. Farenwald, Roslyn, Pa.; H. A. Siebrecht, New York; F. R. Pierson, Tarrytown, N. Y., and A. Hans, Stamford, Conn., from a distance, and a goodly delegation of the local members of the Florists' Club. Previous to the executive meeting an inspection of the rose garden at Elizabeth Park was made, and, to those who have not seen it before, the scene was one of delighted astonishment. The rose garden proper contains about one-and-one-quarter acres. On a central rustic pagoda, on the boundary trellises, and on the arches over the turf walks, the climbing roses are seen; on the declivity from the pagoda to the garden proper, the trailing varieties luxuriate, and then, in successive circles, are the hybrid teas, hybrid perpetuals, noisettes, and other special classes, one variety to the bed, and comprising about two hundred named sorts. The plants, as a rule, have wintered well, and the display at the present time is one of great beauty. The number of visitors with note-book in hand was especially noticeable, and it is stated that since this rose garden was started, the demand for roses for garden planting has increased 500 per cent with the local nuserymen.

After the executive committee of the rose society had finished its labors, automobiles were brought into requisition and the visitors were treated to a delightful tour through Hartford's spacious, well-kept public parks, calling on the way to see the grounds at Goodwin Castle, where J. F. Huss was pleased to show them what all agreed was the most perfect flower garden, Alpine garden, and hardy fern collection on this continent. The roses here were a revelation of the possibilities of garden roses in America. In the evening a banquet was given by the Hartford Florists' Club in the banquet hall of the leading social organization of the city — the Hartford Club. The decorations of the hall were in splendid taste and profusion. At either end, on the wall, were the initials A. R. S. and H. F. C. in flowers. Two immense banks of roses adorned the table and through the center was a broad plaque of flowers, among which were tiny electric lights. Overhead were festoons and garlands of smilax. Messrs. Coombs, Zuger, and Ruedlinger, the decorating committee, were lavishly complimented, and they deserved it. The menu, too, was a work of art.

President J. F. Huss presided, and, after words of hearty welcome, introduced President Sternberg of the Connecticut Horticultural Society as toastmaster. President Montgomery of the American Rose Society was the first speaker. He said that he had never seen a sight so encouraging to the rose lover as what he had seen to-day and wished that thousands more could see Secretary W. J. Stewart was next called upon, and said that it had now been so conclusively proven what could be done with ability and wise culture, that no one could henceforth dare to say that rose growing in American gardens was an impossibility. The garden at Hartford was an object lesson which would mark a new epoch in rose culture. F. R. Pierson, introduced as the "millionaire florist," pleaded not guilty, and waxed eloquent regarding the educational effect of the display he had been privileged to see. He declared the park system, its finish, care, and beauty to be away out of proportion to what might be looked for in a city of but 80,000 population, and said that Mr. Wirth had produced incredible results from the amount of money at his disposal.

Robert Simpson, who was the next speaker, spoke amiably for New Jersey and characterized the Goodwin gardens as a veritable Garden of Eden, a delight which he would not have missed for the world. A. Farenwald made an impassioned but practicable appeal to the Connecticut rose lovers present to come to the support of the rose society. He said that the roses he had seen were an inspiration. The carnation men's talk of $20,000 and $30,000 deals was all in the air; the rose is at the bottom of all the wealth in the floral profession to-day, and it is a marvel that the rose society is not stronger.

Theodore Wirth received an ovation as he responded to the introduction as a man of growing national reputation, Hartford's popular favorite. He gave in a modest way his story of how the rose garden was conceived and carried out, giving credit to the park commissioners who had never refused support or money when he had made a call on them, and to his assistants in the work, for whatever measure of success had been achieved. He was now convinced by the great public interest displayed that there should be no park of any pretensions without a rose garden.

Robert Montgomery, Robert Scrivener, D. A. Dean, J. F. Coombs, Hugh Chesney, Mr. Weltborn, Carl Fohn, and others were all called upon and responded appreciatively, after which President Montgomery eloquently voiced the thanks of the visitors for their generous reception and the party then adjourned to view the electric fountain in Bushnell Park.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURALISTS

The Western Passenger Association, which controls the territory westward from Chicago and St. Louis to Cheyenne, Wyo., and including all points in Colorado, has authorized a rate of one and one-third fare on certificate plan, in cooperation with rate announced by the other Passenger Associations for persons attending the S. A. F. convention at Washington, D. C., August 15-18, 1905. This extends the concession to the whole territory from which members are likely to travel, with the exception of the Pacific Coast which is not under the jurisdiction of any Passenger Association.

Full instructions as to how to purchase tickets and secure certificates entitling the passenger to reduced rates will be published in the prospectus in July, and in all the horticultural trade papers.

WM. J. STEWART, *Secretary.*

THIRTIETH ANNUAL CONVENTION OF AMERICAN ASSOCIATION OF NURSERYMEN

West Baden, Ind., June 14–16, 1905

This meeting may be recorded as one of the greatest convention successes in the history of the association. The attendance was larger than ever before. About three hundred and fifty were present, not including a large number of ladies.

West Baden Springs Hotel proved a convenient and desirable place. The hall, hotel appointments, and service were excellent. The weather was warm, but so it was everywhere. This simply enlarged the attendance in the natatorium between sessions, and caused a heavier draft upon the various brands of mineral water.

THE PROGRAM

This was in the hands of an efficient committee, composed of Harlan P. Kelsey, of Massachusetts; H. C. Chase, Huntsville, Ala.; and John S. Kerr, of Sherman, Texas. It moved along with clock-like regularity under the guidance of Pres. E. W. Kirkpatrick, of McKinney, Texas.

Among the important papers, were "Soil Inoculation," by Dr. Moon, of Washington. Mr. Moon explained the work of the department in making pure cultures of beneficial nitrogen collecting bacteria, and showed the considerable increase of crop resulting from the introduction of these germs on leguminous plants not previously inoculated. There were two ways of securing inoculation: by seed and soil. Both were effective, but in using soil, care should be taken to avoid the transportation of parasites or noxious weeds, as nematodes or dodder, which latter often infests alfalfa fields.

The root knot of fruit trees was lengthily discussed by Mr. Hedgecock, special pathologist of the Bureau of Plant Industry. Mr. Hedgecock's studies appear to warrant the statement that the hard root knot of apple and peach is not infectious. He has nothing as yet to offer in the way of remedies.

The illustrated addresses of Assistant Secretary of Agriculture, Willett M. Hays on "Plant Breeding," and that by J. Horace McFarland on the Arnold Arboretum, were altogether delightfully instructive and suggestive. Mr. Hays drew especial attention to the important wheat breeding experiments under way in Minnesota, and Mr. McFarland showed the great æsthetic and economic value, presently and potentially, of the extensive collection of woody plants gathered at the Arnold Arboretum. Nurserymen and florists were urged to do their utmost to work for the perpetual preservation of this tree garden, which should last for a thousand years and increase in value each decade, but which was greatly in need of financial aid to render its future entirely assured.

REPORTS OF COMMITTEE

Among the important actions taken was the appointing of a committee to act with a similar committee of the American Seed Trade Association and the S. A. F. & O. H., for the purpose of securing parcels post and more equitable express rates.

TRANSPORTATION

This committee rendered a valuable report, and was given additional authority and urged to continue its efforts to secure a more favorable classification of nursery stock.

LEGISLATION

An effort is being made by this committee to draft a measure which shall cover the principal requirements of the fruit-shipping States, including the inspection, fumigation, and interstate shipping of nursery stock. If a federal bill of this comprehensive character is constitutional, a strong effort will be made to formulate the measure, with a view of securing its passage.

PLACE OF NEXT MEETING

Dallas, Texas — was chosen as the meeting-place for 1906. An enthusiastic band of Texans came up, and fairly captured the convention.

SPECIAL FEATURES

Among the side attractions were an instructive visit to the historic town of Vincennes, Ind., and the nurseries of Simpson and Reed in that locality; a trip to Mammoth Cave, Kentucky, was greatly enjoyed by forty or fifty, under the guidance of Mr. E. Albertson, of Bridgeport, Ind.; but the *pièce de résistance* was the closing banquet of Friday night at the West Baden Springs Hotel. This was as pretty an event as one could wish to see; the ladies, flowers, music, speeches, to say nothing of a splendid variety of native wines, were most inspiring and vastly enjoyed. This feature has come to stay, say the nurserymen.

OFFICERS ELECTED

Pres., E. Albertson, Bridgeport, Ind.; vice-pres., Orlando Harrison, Berlin, Mo.; sec'y, George C. Seager, Rochester, N. Y.; treas., C. L. Yates, Rochester, N. Y.

EXECUTIVE COMMITTEE

Thomas B. Meehan, Dreshertown, Pa.; Theodore J. Smith, Geneva, N. Y.; J. H. Dayton, Painesville, O. J. C.

HARTFORD FLORIST CLUB

Report of Committee on Window-box, Porch, and Veranda Gardening

Window-box, porch, and veranda gardening, it would seem at present, is within the threshold of a successful era in this country, and it seems strange that this effective and comparatively inexpensive method of beautifying houses, especially in cities, has not been long ago more universally adopted and advanced, considering the long standing of this art of gardening in European cities, which are annually visited by thousands of American tourists. True, our climate here is not as favorable to such gardening as it is in London, for instance, where window-boxes are in evidence the year around, receiving from three to four different fillings as the seasons call for the different varieties of plants; but cutting out the winter season, which with us is too severe to admit the use of such plants as aucubas, euonymuses and choice conifers as they are so effectively used in England, there is no reason why our windows should not be adorned with beautiful foliage and flowers in almost inexhaustible varieties, from the time when the crocuses and tulips break the ground, when pansies, forget-me-nots and daisies respond to the warmth of the welcome spring sun, to the time when Jack Frost, the unmerciful, bereaves our fields, parks, and gardens of the endless combinations of bright colors produced by plant life.

It may truly be said of most of our attractive cities that the creation and development of park systems all over the country, has had a very far-reaching, beneficial influence upon the beautifying of home grounds through the residential districts of these cities, and it is quite natural that it should be so. Indeed, it would be a strange, unresponsive, cold people that would not take its lesson so easily learned and within the reach of all; and the very fact that those lessons given have been so fruitful, bringing additional happiness and attractiveness to so many homes, should lead us on to further efforts to extend the cultivation of flowers at all seasons of the year at the homes of all.

The fact that the wind will blow the seeds of grass, of a shrub, or even of a tree into the smallest crevice of a stone pavement, a stone wall, or any almost inconceivable space, often too small to be noticed by the superficial eye, and that said seed will germinate and produce a plant which will live its term, should teach us that there is hardly a space or location which will refuse all conditions necessary to plant-life, but that on the contrary with the help of paintsaking care, adverse conditions can be overcome and plant life can be introduced and maintained everywhere where bareness otherwise rules supreme.

We see now here and there well filled window-boxes, and vases on porches and verandas along residential streets, on houses the front yards and often the back yards of which are already in themselves beautiful and attractive, and they are certainly becoming to the houses which they adorn, as tasteful and handsome as the architectural appearance and the surroundings of those residences may already be. Now if those floral ornamentations are well placed here and help to still more enhance the beauty of the already beautiful, how much more valuable must the same methods of beautifying and making more homelike the homes of all be, in those parts of a city where there are no attractive front yards, lawns, flowerbeds, shrubbery, and trees, where there are the barren, formal brick walls, or where even the elaborate creations of modern architecture are unable to overcome the monotonous and tiresome impression which prevails on every one in all the business and tenement streets of our cities. In other words, there is a way open and it should be taken advantage of to bring the gardening which we admire so much in the outer districts of our city, to all parts of the city, through our business streets to the homes of our less fortunate fellow-citizens, and the homes of those of our fellow-beings that have to live in the crowded tenement districts.

(Continued in next week's issue)

FUTURE EVENTS

The Massachusetts Horticultural Society hold a rose and strawberry exhibition in Horticultural Hall, June 24 and 25.

Newport Horticultural Society's great show takes place on June 27–29.

The American Association of Park Superintendents meet at Buffalo, N. Y., for their eighth annual convention, June 28–30.

The North Shore Horticultural Society have a rose exhibition at Manchester, Mass., on June 29.

OBITUARY

Leo Villner, brother of Louis Villner, the Walnut Hill florist, Cincinnati, has recently passed away.

Robert Wilkinson Furnas died at Lincoln, Neb., June 5, in the 82d year of his age. Mr. Furnas was for a long time identified with the Nebraska State Horticultural Society as its president; was vice-president of the American Pomological Society; was at one time brigadier-general of the Nebraska militia, and afterward governor of the state, and achieved success in every line of work that he undertook.

We are very sorry indeed to learn of the sudden death by accident on Saturday afternoon last of Mr. Harry T. Pearce, a young agriculturist of My Lady's Manor, Baltimore County, Md., while riding in an amateur race at Shrewsbury. Mr. Pearce was in the prime of life, being but 35 years of age. He was a son of Col. Jacob M. Pearce, who is one of the most prominent agriculturists in the State, and who was one of the Maryland Commissioners to the St. Louis Exposition. The horse which Mr. Pearce was riding fell, throwing the young man, fracturing his skull, after which he survived but a short while. We extend our sympathies.

Cut-Flower Market Reports

BALTIMORE The briskness of the early June market, due to the numerous weddings and commencements, has disappeared, and there is now no demand for any specialty. Local-grown roses are not up to the standard, and with the exception of a few Golden Gates and Meteors the stock is poor. The best stock of American Beauty comes from the North, as is the case with lily of the valley. Carnations are on the decline and sweet peas, which have been the leaders, are approaching the end. Harrisii and callas are very abundant, but there are few calls for them.

BUFFALO The past week has shown little change, but the ending was satisfactory, considering the amount of stock on hand. Home-grown pæonies are at their best, and a good supply is being received daily. The hot weather opens them too fast for shipping purposes, therefore many are carried over and disposed of at low prices. The demand for roses is causing a scarcity of select stock, and Beauties are selling brisk. In carnations low prices rule on ordinary stock, but fancy moves well. Sweet peas are in good demand, but quality poor, owing to damp weather prevailing.

On Monday graduation is in order, and a good week's business is looked for.

CHICAGO The summer weather brought on an immense supply and prices took a tumble. Demand lagged, independence was apparent in buyers' actions. They felt that there was no necessity for haste and consequently the trading was extended over the entire day; and they hammered prices, greatly to the distress of the growers, who saw their commission men forced to accept big declines. Quality on Brides and Bridesmaids is very common. Kaiserin Augusta Victoria is still in limited supply, however, and fills the call where something choice is wanted. A healthy demand exists for Liberty. American Beauties this week reached the $4 mark, and the number of receipts at this figure were few. The quality was not good, this fact being a contributing factor toward advancing values on the choice grades. Rose Richmond is promised in five weeks. The weak spot of the market was carnations, ordinary grades being again in numbers beyond the trade requirements and some sellers were forced to the mercy of the Greeks. The happy faculty of adjusting their desires to the supplies is something in which the Greeks show a masterly art, and, while in other branches the law of supply and demand is assumed to be a natural one, it seems to lose its force and become partially inoperative when it comes in contact with the immobile street venders. This apparent paradox was exemplified this week. The Greeks are the final arbitrators of prices, and sellers were forced to submit to the Greeks' terms with what grace they could. Pæonies have shortened up. White has advanced. The bulk of supply comes from storage, which promises to hold out until July 15. Sweet peas are in heavy supply. Gladiolus is offered by several houses. Demand on lily of the valley fell far below that of the past week. Lilies and auratums are equal to demand. Ferns are excellent in quality. The best white carnation in this market at present is Boston Market. Dahlias, centaureas, coreopsis, gladiolus, and water lilies can be had of HORTICULTURE's advertisers.

CINCINNATI Most of the retail stores have been kept busy of late with wedding and commencement orders, which, in turn, used up all available good stock. Roses and carnations sold well, the former being a little scarce, and commanded a good price, considering the quality, as the greater part were badly mildewed. Some good Kaiserins have been coming in, and were eagerly sought after. Green goods plentiful, but sell readily.

LOUISVILLE Business conditions the previous week were a little slow. Carnations are satisfactorily demanded, but the quality is not very good and the supply is limited. Roses sell well, but are of inferior grade. Sweet peas of fine quality are abundant enough to meet all demands.

J. D. Carmody, of Evansville, Ind., and J. A. Peterson, of Cincinnati, O., were recent visitors.

MONTREAL The cut-flower trade in all lines has been well maintained. The late quarters of bedding stock in frames are being used to pot off small ferns. They do much better here than in the house, if kept well ventilated and densely shaded.

In Mrs. Moulson's garden the new Anthericum liliastrum major is showing fine spikes of flowers. It is a capital thing either for vase or bouquet work. Incarvillea Delavayii is also in flower. It may be of interest to note that this fine plant appears to stand Canadian winters safely when planted in a dry position. It makes an excellent pot plant, too, for early spring display.

NEW YORK Nearly all grades and kinds show the effect of the weather, which has been hot and cool by turns. There are some Beauties grown for summer trade, also Killarney, Carnot, Kaiserin, and Liberty, that are of excellent quality. Trade in general is very quiet and the greater share of the flowers coming into this market have been disposed of in bulk at anything but remunerative figures. Carnations are extremely plentiful and cheap, a very small proportion bringing a price. Outdoor stock is less abundant.

PHILADELPHIA The best that can be said for the market the past week is that it was fair for the season. Stock of all kinds was plentiful; but the most of it was away below high water as to quality. In American Beauties, for instance, there was any amount of poor stock around, but really first-class grades were few and far between, and the same may be said of Brides and Bridesmaids, only more so, as much of the latter was badly mildewed. An exception was noted in some lots from New England, which showed good clean foliage and excellent size and form. Liberties, better quality than much of the other local receipts, and Kaiserins, very good at present. Carnations, very plentiful, no reasonable offer refused. Pæonies are about over here, although we still see some good ones at Pennock's; these are probably from New England points. The lily of the valley market is rather overstocked at present; but quality is all that can be desired. Sweet peas badly overstocked and almost impossible to move them at any price. Lilium candidum is in and finds favor among the critical buyers. Delphinium formosum and Japanese iris are in demand as attractive and inexpensive window decorators, and are useful in other ways. Achillea and matricaria are plentiful now, and find favor for funeral work. Very few orchids — mostly cattleyas.

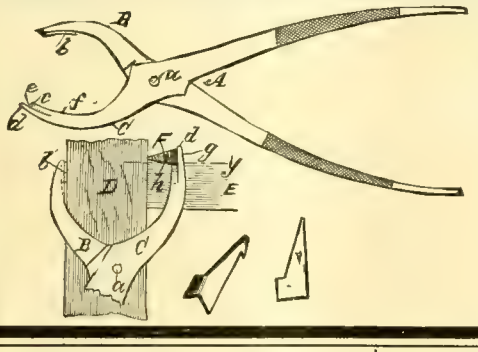
BUSINESS CHANGES

Crittenden & Daniels succeed Williams & Crittenden at Waterloo, Ia.

Howe & Taylor's wire-work factory at the Growers' Market, Chicago, was sold to Joseph Kubita, of New York, on June 12.

After the misfortune of two fires, the New London florist firm of Pratt & Giger has gone out of business. — *Norwich* (Conn.) *Bulletin.*

A. H. Hews & Co's flower pot manufactory has again started up after a shut-down for repairs to the building and will now run over-time in getting ready for the demands of fall trade. W. A. Hastings, who has been salesman for H. Rogers, South Sudbury, has been secured as traveling salesman for A. H. Hews & Co., in western territory.



THE OLD RELIABLE
Chandler Glazing Point and Pincers
Roofs glazed eighteen years ago are still intact.
Don't glaze until you write for samples and particulars.
300,000 sold by Peter Henderson & Co. in three months.
B. B. & E. J. CHANDLER
HYDE PARK, MASS.

Roses for Planting
STRONG PLANTS OUT OF 4-IN. POTS
Brides and Maids on own Roots and Grafted on Manetti Perles, Chatenay, Gen. McArthur and Carnot.
Pittsburgh Rose and Carnation Co.
CRYSTAL FARM
GIBSONIA P. O., PA.
In writing to advertisers, mention HORTICULTURE

FOR SALE
225 Brides, 200 Maids, grafted stock, clean and vigorous, from 4-in. pots, at $12.00 per hundred, cash.
J. M. WARD & CO. PEABODY, MASS.

BULBS
HORSESHOE BRAND **and PLANTS**
Ralph M. Ward & Co.
12 West Broadway New York

M. H. WALSH
Rose Specialist
WOODS HOLE, MASS.
Hardy Roses, the best new and old varieties; **Strong Flowering Plants; Hybrid Tea Roses,** the best and hardiest varieties; **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha.** Strong, field-grown plants to flower next summer. Best varieties **Paeonies, Phlox, and Hollyhocks.**
Catalogue describes all the above.
In writing to advertisers, mention HORTICULTURE

Peruvian Guano
A Natural Bird Product from Peruvian Islands
100 lbs. $2.25
W. ELLIOTT & SONS, -- NEW YORK

PATENTS
CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.
Send your business direct to Washington, saves time, costs less, better service.
My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the
INVENTIVE AGE
illustrated monthly—Eleventh year—terms, $1. a year.
E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

WANTS
Advertisements under this heading one cent a word. Initials count as words. Cash with order. One insertion free to any gardener or florist seeking a situation.

GOOD MEN
When you need good men, skilled or unskilled, write:
THOS. H. BAMBRICK
34 South 7th St., Philadelphia
Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE — 1 Gurney Boiler $50.00; 1 Hitchings Boiler $40.00; 1 Hitchings Boiler $20.00; 1 Weathered Boiler $18.00; 1 Coil Boiler $18.00. These boilers are all in good condition. To be sold at once and removed from place. B. L. Clark, West St., Randolph, Mass.

INVESTMENT WANTED — Hollander, whose business brings him to the States, desires to invest substantial amount not exceeding 30,000 to 40,000 guilders, in first-class horticultural business, where he can be of service in buying Dutch bulbs and other similar products in Europe. Only first-class houses need reply. Address giving general particulars and appointing interview, A. M. M. care of HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED — Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R. care HORTICULTURE, 11 Hamilton Place, Boston.

New Crop Beauties

FINE COLOR
GOOD CLEAN FOLIAGE

THE LEO NIESSEN CO.
WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA
After July 1st Store Open 7 A. M. to 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

VALLEY EXTRA CHOICE

Our stock of Valley is considered the best in the country.

Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.
Commencing, June 26th will close at 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers

BOSTON'S BEST
ALL VARIETIES
SHIPPED TO ALL POINTS
Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.
84 HAWLEY ST.
Tel. Main 5973 BOSTON

Hardy Cut Dagger and Fancy
FERNS
$1.50 per 1000
Green and Bronze Galax, $1 per 1000
Best Stock of FLORISTS' SUPPLIES in the country
H. M. Robinson & Co.
8 & 11 PROVINCE ST.
Boston, Mass.
In writing to advertisers, mention HORTICULTURE

E. H. HUNT

Wholesale
Cut Flowers
"THE OLD RELIABLE"
76 Wabash Ave. ....CHICAGO
In writing to advertisers, mention HORTICULTURE

WILLIAM J. BAKER
WHOLESALE FLORIST
1432 So. Penn. Sq., PHILA.
CARNATIONS
Sweet Peas, Lilies of the Valley
In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO June 20	ST. LOUIS June 20	PHILA. June 20	BOSTON June 21
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 32.00	..... to	30.00 to 35.00	20.00 to 25.00
" Extra	22.00 to 25.00	..... to 18.00	20.00 to 25.00	12.00 to 15.00
" No. 1	15.00 to 20.00	12.50 to 15.00	10.00 to 15.00	4.00 to 8.00
" Lower grades	2.00 to 6.00	3.00 to 10.00	5.00 to 8.00	1.00 to 2.00
Bride & 'Maid—Fan. & Sp.	6.00 to 8.00	... to	8.00 to 10.00	4.00 to 6.00
" " Extra	5.00 to 6.00	..... to 6.00	6.00 to 7.00	2.00 to 3.00
" " No. 1 and Lower gr.	1.00 to 4.00	2.00 to 5.00	2.00 to 4.00	.50 to 2.00
Liberty, Fancy & Special	10.00 to 12.00	..... to	12.00 to 15.00	10.00 to 12.00
" extra	8.00 to 10.00	..... to 6.00	8.00 to 10.00	8.00 to 10.00
" No. 1	6.00 to 7.50	4.00 to 5.00	5.00 to 6.00	4.00 to 6.00
Meteor	... to ...	..... to	..... to	2.00 to 6.00
Carnot and Kaiserin	4.00 to 12.00	..... to	6.00 to 8.00	4.00 to 10.00
Golden Gate, Ivory, Chatenay — Best	6.00 to 8.00	..... to 6.00	10.00 to	5.00 to 6.00
Golden Gate, Ivory, Chatenay — Medium	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
Golden Gate, Ivory, Chatenay — Culls	1.00 to 3.00	3.00 to	... to	1.00 to 2.00
CARNATIONS				
Fancy Class	1.50 to 2.00	2.00 to 2.50	3.00 to	1.50 to 2.00
General Class	.25 to 1.00	1.00 to 1.50	1.00 to 2.00	.75 to 1.00
ORCHIDS				
Cattleyas	50.00 to 60.00	..... to	..... to	..... to .....
BULBOUS				
Lilies	8.00 to 12.50	... to	10.00 to 12.50	6.00 to 8.00
Lily of the Valley	1.50 to 3.00	..... to	3.00 to 4.00	2.00 to 4.00
Stocks	... to	..... to	..... to	1.00 to 2.00
Daffodils	... to	..... to	..... to	..... to .....
Callas	... to	..... to	..... to	6.00 to 8.00
MISCELLANEOUS				
Mignonette	1.50 to 3.00	... to	... to	1.00 to 2.00
Sweet Peas	.35 to .75	.15 to .20	.50 to .75	.35 to .50
Adiantum Cuneatum	.50 to .75	... to ...	1.00 to ...	..... to 1.00
" Croweanum	... to ...	... to	1.50 to	..... to 1.50
" Farleyense	..... to ...	... to	... to	..... to .....
Smilax	8.00 to 12.50	... to 12.50	20.00 to	12.00 to 16.00
Asparagus Plumosus; strings	35.00 to 50.00	..... to ...	50.00 to ...	35.00 to 50.00
" " bunches	... to ...	..... to	50.00 to	35.00 to 50.00
" Sprengeri "	... to	25.00 to 75.00	50.00 to	25.00 to 35.00
Gardenias	... to	..... to	12.50 to	..... to .....
Pæonies	2.00 to 6.00	..... to	..... to	4.00 to 6.00

PHILADELPHIA CUT FLOWER CO.
1516-1518 SANSOM STREET, PHILADELPHIA
KAIZERIN, CARNATIONS, SWEET PEAS
Store Closes at 6 P. M. from June 19th to Sept. 16th Daily except Saturday at 1 P. M.

In writing to advertisers, kindly mention HORTICULTURE

EVERYTHING IN
CUT FLOWERS
OUR MOTTO { GOOD { STOCK / TREATMENT / PACKING
EDWARD REID
1526 RANSTEAD ST. - PHILADELPHIA
In writing to advertisers, mention HORTICULTURE

A Daily Shipment
From 40 to 60 Growers
We can and will take care of your Cut Flower and Supply Wants to advantage
E. F. WINTERSON CO. 45-47-49 WABASH CHICAGO
CATALOGUE FREE

CHAS. W. McKELLAR
51 WABASH AVE. CHICAGO
Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG
WHOLESALE
CUT FLOWERS
51 Wabash Ave. Chicago, Ill.
In writing to advertisers, mention HORTICULTURE

ROSES

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy

	100	1000
Uncle John, 3½-inch,	$3.00	$25.00
Uncle John, 2-inch,	2.00	15.00
Bridesmaid, 2-inch,	2.50	20.00

American Beauty (Bench Plants) $4.00 per 100, $35.00 per 1000

AS A LEADER we offer UNCLE JOHN in 3½-inch pots at $25; 2-in at $15.

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Enchantress	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Lawson (Pink)	Stella	Harry Fenn	Triumph	Peru
Boston Market	Crusader	Roosevelt	Mrs. Ine	Guardian Angel

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Prices furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in A1 CONDITION.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and CARNATIONS A SPECIALTY.... WHOLESALE GROWER of Cut Flowers

In writing to advertisers, kindly mention HORTICULTURE

FANCY OR DAGGER FERNS

CROWL FERN Co

New Crop, No. 1 stock only 75c. per 1000. Fine quality laurel blossoms, very fine pink shades, 50c. per large bundle. Galax, brilliant bronze or green, 75c. per 1000; $6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 35c. per large bundle. Southern wild Smilax, 50-lb. cases, $5.50 per case. Laurel wreaths and Princess pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

CROWL FERN CO. - - - MILLINGTON, MASS

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers mention HORTICULTURE

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th Street, New York

In writing advertisers, mention HORTICULTURE.

GEO. H. COOKE
FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

In writing to advertisers, mention HORTICULTURE

FRED C. WEBER
FLORIST

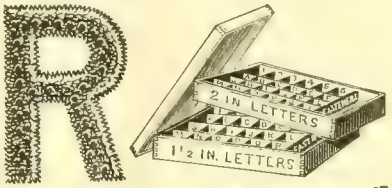
4326-28 OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 676

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2 inch size, per 100, $2.5
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

Peonies, Roses, Carnations
Valley, Fancy Ferns
and all Cut Flowers

AT LOWEST MARKET PRICES

Write for price list if you have not received one.

Vaughan & Sperry 60 Wabash Ave. CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

JAPANESE SPECIALTIES

Dwarf Trees and Miniature Plants in fancy Japanese Pots, etc. etc.

HINODE FLORIST CO.

5th Street, Woodside, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York
Tel. 299 Madison Sq. Open 6 A.M. to 5 P.M.
In writing to advertisers, mention HORTICULTURE

MOORE, HENTZ & NASH
WHOLESALE
COMMISSION FLORISTS
55 West 26th St., New York
Telephone call: 756 Madison Sq.

FORD BROS.
48 West 28th Street, New York
Fine Roses
Fancy Carnations
A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone: 902 Madison Sq.

JULIUS LANG
Wholesale Florist
Consignments received, sold well and returns made promptly
53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

GEORGE A. SUTHERLAND CO.
CUT FLOWERS
Florists' Supplies and Letters
34 Hawley St. - BOSTON

WM. GHORMLEY
WHOLESALE COMMISSION FLORIST
57 West 28th St., New York
FINEST ROSES; ALL VARIETIES
Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers
Special Attention to Shipping Orders Telephones { 2200 } Madison { 2201 } Square Write for Current Prices
In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending June 17 1905	First Half of Week beginning June 19 1905
ROSES		
Am. Beauty, fan. and sp	12.00 to 20.00	10.00 to 25.00
" extra	8.00 to 12.00	8.00 to 10.00
" No. 1	4.00 to 8.00	5.00 to 8.00
" Lower grades	1.00 to 2.00	.50 to 3.00
Bride & Maid, fan. and sp	4.00 to 6.00	3.00 to 6.00
" " extra	2.00 to 4.00	2.00 to 3.00
" " No. 1 and Lower gr.	.50 to 2.00	.50 to 1.25
Liberty, fan. and sp.	5.00 to 8.00	8.00 to 15.00
" extra	3.00 to 5.00	3.00 to 6.00
" No. 1	2.00 to 3.00	2.00 to 3.00
Meteor	..... to	.50 to 3.00
Jacq	..... to	..... to .....
Brunner	..... to	..... to .....
Carnot and Kaiserin	2.00 to 6.00	.50 to 6.00
Golden Gate, Ivory, Chatenay — Best	..... to	1.00 to 5.00
Golden Gate, Ivory, Chatenay — Medium	..... to	..... to .....
Golden Gate, Ivory, Chatenay — Culls	..... to	..... to .....
CARNATIONS		
Fancy Class	1.50 to 2.00	1.00 to 2.00
General Class	.50 to 1.00	.25 to .75

	Last Half of Week ending June 17 1905	First Half of Week beginning June 19 1905
ORCHIDS		
Cattleyas	25.00 to 50.00	25.00 to 50.00
Cypripediums	..... to	..... to .....
BULBOUS		
Lilies	4.00 to 6.00	3.00 to 6.00
Lily of the Valley	2.00 to 4.00	1.00 to 3.00
Callas	..... to	..... to .....
MISCELLANEOUS		
Mignonette	.50 to 2.00	.50 to 2.00
Sweet Peas	.10 to .75	.10 to .75
Adiantum Cuneatum	.50 to .75	.50 to .75
" Croweanum	..... to 1.50	..... to 1.50
" Farleyense	..... to	..... to .....
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings	35.00 to 50.00	35.00 to 50.00
" " bunches	15.00 to 25.00	15.00 to 25.00
" Sprengeri "	10.00 to 20.00	10.00 to 20.00
Gardenias	4.00 to 8.00	..... to .....
Lilacs bunches	..... to	..... to .....
Pæonies	1.00 to 3.00	..... to .....

Florists Out of Town
Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by
Thomas Young, Jr.
41 W. 28th Street - - NEW YORK
In writing to advertisers, mention HORTICULTURE

ALEX. McCONNELL
546 Fifth Ave., New York City
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL
In writing to advertisers, mention HORTICULTURE

DETROIT
John Breitmeyer's Sons
Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.
Artistic Designs
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada.
In writing to advertisers, mention HORTICULTURE

WEILAND & RISCH
Leading Western Growers and Shippers of
Cut Flowers
59 Wabash Ave., CHICAGO
Long Distance Phone Central 879.
In writing to advertisers mention HORTICULTURE

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.
WHOLESALE FLORISTS
55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JAMES A. HAMMOND
Wholesale Commission Florist
113 W. 30th St., Tel. 854 Madison Sq. NEW YORK CITY
Consignments receive conscientious and prompt attention. Highest market price guaranteed. The finest stock in the market always on hand

The only house handling the New Red Carnation **"Victory"**
To be disseminated 1906. Also a complete line of choicest flowers,
ALEX. J. GUTTMAN
WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

The RELIABLE HOUSE
JOSEPH S. FENRICH
Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

A. L. YOUNG & CO.
Wholesale Florists
Shipping orders supplied with selected Flowers at reasonable prices. Send for circular.
54 W. 28th ST., NEW YORK
Tel. 3559 Madison Square

REED & KELLER
122 W. 25th St., New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Galax Leaves and all Decorative Greens
Agents for CALDWELL'S PARLOR BRAND WILD SMILAX
In writing to advertisers, mention HORTICULTURE

American **BEAUTIES**
AND
QUEEN OF EDGELYS
WELCH BROS.
City Hall Cut-Flower Market
15 PROVINCE ST., BOSTON

WIETOR BROS.
Wholesale Growers of
CUT FLOWERS
51-53 Wabash Ave., CHICAGO, ILL.
In writing to advertisers, mention HORTICULTURE

Established 1887 Tel. 167 Madison Sq.
J. K. ALLEN
Always Reliable for FLOWERS
CONSIGNED or ORDERS given
Open 6 A. M. Write for Market Prices on Flowers.
106 W. 28th Street, New York
In writing advertisers, mention HORTICULTURE

Headquarters in Western New York for
Roses
Carnations
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist
Also Dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa
In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 West 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

OUR FLOWERS
Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unexcelled quality EVERY DAY IN THE YEAR.
We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.
TRAENDLY & SCHENCK
44 West 28th St. New York City Telephones, 798-799 Madison Square

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI JUNE 20	BALTIMORE JUNE 20	BUFFALO JUNE 20	PITTSBURG JUNE 20
ROSES				
Am. Beauty, fan. and sp.	..... to 30.00	..... to	20.00 to 25.00	20.00 to 30.00
" extra	15.00 to 24.00	15.00 to 20.00	12.00 to 20.00	12.00 to 18.00
" No. 1	10.00 to 12.00	10.00 to 12.00	6.00 to 12.00	6.00 to 10.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	2.00 to 3.00
Bride & Maid, fan and sp.	5.00 to 6.00	..... to	6.00 to 8.00	..... to 8.00
" " extra	3.00 to 4.00	..... to 5.00	5.00 to 6.00	5.00 to 6.00
" " No. 1 and Lower gr.	2.00 to 3.00	2.00 to 4.00	2.00 to 5.00	1.00 to 4.00
Liberty, fan. and sp.	..... to 6.00	..... to	6.00 to 10.00	8.00 to 15.00
" extra	..... to 4.00	..... to	5.00 to 6.00	..... to .....
" No. 1	..... to 3.00	..... to	4.00 to 5.00	..... to .....
Meteor	..... to	3.00 to 5.00	3.00 to 6.00	..... to .....
Jacq.	..... to	..... to	..... to	..... to .....
Brunner	..... to	..... to	..... to	..... to .....
Carnot and Kaiserin	..... to	3.00 to 6.00	4.00 to 8.00	..... to .....
Golden Gate, Ivory, Chatenay — Best	..... to 6.00	..... to 5.00	..... to	..... to .....
Golden Gate, Ivory, Chatenay — Medium	4.00 to 5.00	..... to 4.00	..... to	..... to .....
Golden Gate, Ivory, Chatenay — Culls	..... to 3.00	2.00 to 3.00	..... to	..... to .....
Killarney	..... to	..... to	..... to	..... to .....
CARNATIONS				
Fancy Class	..... to 2.00	..... to	2.00 to 3.00	..... to 2.00
General Class	.50 to 1.50	.50 to 1.50	.75 to 2.00	1.00 to 1.50
ORCHIDS				
Cattleyas	..... to	..... to	..... to	..... to .....
Cypripediums	..... to	..... to	..... to	..... to .....
BULBOUS				
Lilies	10.00 to 12.00	8.00 to 10.00	10.00 to 12.00	12.00 to 15.00
Lily of the Valley	..... to 4.00	..... to	3.00 to 4.00	2.00 to 4.00
Stocks	..... to	..... to	..... to	..... to .....
Daffodils	..... to	..... to	..... to	..... to .....
Tulips	..... to	..... to	..... to	..... to .....
Callas	6.00 to 8.00	6.00 to 8.00	..... to	..... to .....
MISCELLANEOUS				
Mignonette	..... to	..... to	..... to	..... to .....
Sweet Peas	.35 to .50	.20 to .30	.30 to .60	..... to .....
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	..... to 1.00
" Croweanum	..... to	1.00 to 1.50	..... to 1.50	..... to .....
" Farleyense	..... to	..... to	10.00 to 12.00	..... to .....
Smilax	10.00 to 12.50	15.00 to 20.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	..... to 50.00	25.00 to 50.00	40.00 to 50.00	20.00 to 50.00
" " bunches	..... to 35.00	25.00 to 50.00	25.00 to 50.00	..... to .....
" Sprengeri "	..... to 35.00	25.00 to 50.00	25.00 to 50.00	..... to .....
Gardenias	..... to	..... to	..... to	..... to .....
Lilac, bunches	..... to	..... to	..... to	..... to .....
Pæonies	..... to	..... to	..... to	..... to .....

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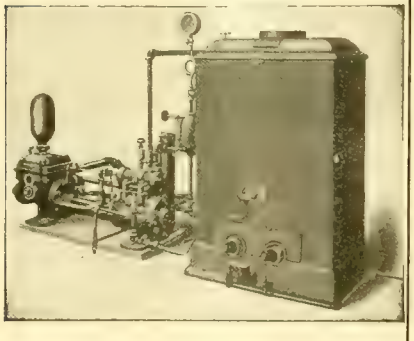
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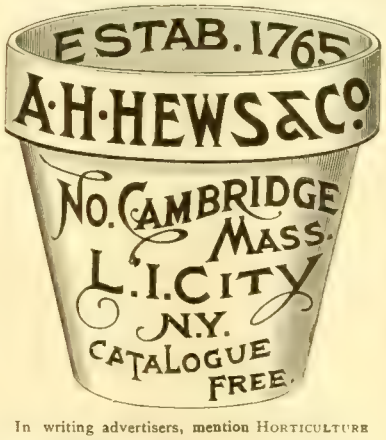
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Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhousemen and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3-8 inch to 14 inch.

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1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

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PECKY CYPRESS BENCH LUMBER

GREENHOUSES

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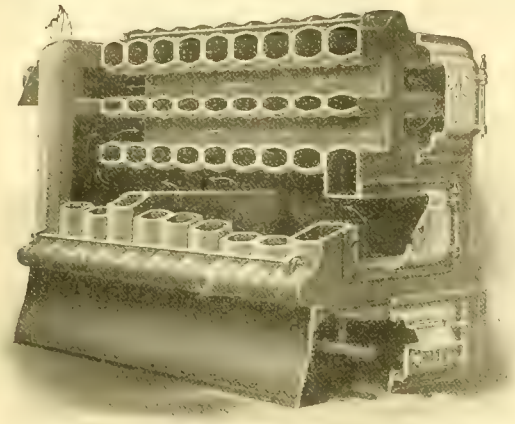
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Scollay Invincible

BOILERS

for Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings
Also Fittings and Valves, all sizes for
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PIPE CUTTERS New, cuts ⅛-in. to 1-in., pipe, $1.00; cuts 1-in. to 2-in., pipe, $1.30.
STILLSON WRENCHES New 18-in., grips ¼-in. to 2-in., pipe, $1.65; 24-in., grips ¼-in. to 2½-in., pipe, $2.40; 36-in., grips ½-in. to 3½-in. pipe, $4.75.
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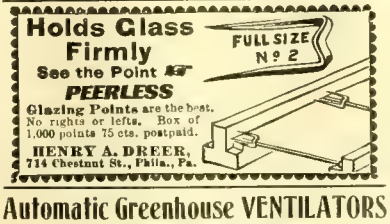
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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

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From $25.00 up. Send for circular

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DO IT NOW

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VENTILATING APPARATUS
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Catalogues sent on request.

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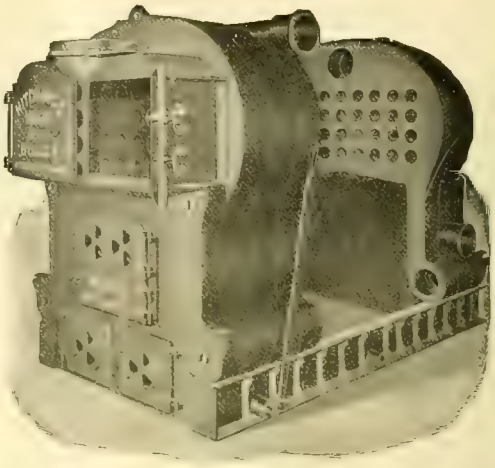
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WE MANUFACTURE and ERECT

EVERY TYPE OF

GREENHOUSE

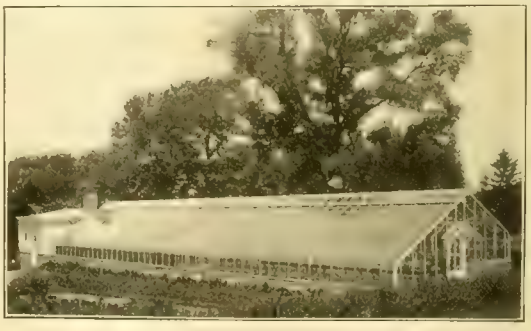
The GALVANIZED "U" BAR TYPE
The FLAT IRON RAFTER TYPE
The SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

WE ALSO MANUFACTURE

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ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.



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